

Commercial FERTILIZERS

Report for 1963

H. J. FISHER

Chief Chemist

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REPORT ON INSPECTION AND ANALYSIS OF
COMMERCIAL FERTILIZERS

1963

H. J. Fisher, Chief Chemist¹

CONNECTICUT LAW AND REGULATIONS REGARDING
COMMERCIAL FERTILIZERS

The term "commercial fertilizers", as used in the Connecticut fertilizer statute, includes "any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure which have not been artificially treated or manipulated, marl and lime." An amendment of the law in 1949 permitted fertilizers to be labelled with guaranties of elements other than nitrogen, phosphorus and potassium, but did not change the requirement that mixed fertilizers must contain at least 0.82 per cent of nitrogen, and 1 per cent of either phosphoric acid or potash, for guaranties of these elements to be made. Phosphorus must be declared as available phosphoric acid (except in the case of bone, tankage and other natural organic materials, where total phosphoric acid is guaranteed), and potassium as water-soluble potash; all other elements must be guaranteed in terms of percentages of the elements, not as oxides or salts. A registration fee of \$10.00, payable annually, is charged for each element guaranteed in each brand of fertilizer; there is also a six cent tonnage tax, payable semi-annually.

While manufacturers usually register their own fertilizers, if a retailer sells a fertilizer manufactured by an out-of-state firm, and that firm refuses to register, under the law the retailer is responsible for registration fees and tonnage taxes. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturers of the brands which he handles, or himself be prepared to meet all these requirements.

The law exempts from registration, and from other requirements, only: (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to The Connecticut Agricultural Experiment Station for experimental purposes.

Cottonseed, linseed, peanut and soybean oil meals, when sold or used for fertilizer purposes must be registered as fertilizers and the specified

¹

Analyses were made by Messrs. Richard A. Botsford, Sherman Squires, Werner Mueller, Charles Hahn and Miss Helen Kocaba; inspection and sampling by Mr. R. Richard Nichols; compilations by Mrs. Arnold Malmberg and Mrs. Marshall S. B. Brown.

fees paid thereon. For such products the registration fee is \$10.00 per brand. This fee and the tonnage tax are entirely apart from the registration fee required by the feeding stuffs law for vegetable meals used as feeds (there is no tonnage tax on feeds).

Because manufacturers or jobbers do not know how much, if any, of their vegetable meal tonnage is sold or used as fertilizers, local dealers and purchasers report their sales or purchases to this Station. This information is not for publication but is used to inform manufacturers of the total sales of their meal as fertilizer in this State. It is expected that the fees provided for by statute will be paid by the manufacturer or other party responsible for the brands.

OFFICIAL DEFINITIONS OF FERTILIZER TERMS AND MATERIALS

It is expected that fertilizers sold in this state will comply with the regulations and standards of the Association of American Fertilizer Control Officials. A copy of the "Official Publication" of that Association giving these definitions and regulations may be obtained from the secretary-treasurer, B. D. Cloaninger, Drawer 392, Clemson, South Carolina, for \$2.00.

REGISTRATIONS

For 1963, 120 firms and individuals registered 624 brands of fertilizer at this Station for sale in the State. As required by statute, the brands are listed as follows:

A-PENN OIL CO., P. O. Box 191, Butler, Pa.

(Registered by International Minerals & Chemicals Corp.,
Woburn, Mass.)

Marvel Green Lawn Builder 20-10-5

AGRICULTURAL PRODUCTS CO., INC., 589 Atwells Ave.,
Providence, R. I.

Blue Ribbon 5-10-5 Fertilizer Lawn-Garden

Golden Comet 10-6-4 Lawn Food

Guardian 8-6-4 Gro-Green Lawn Fertilizer

Super Turf King 10-6-4

Turf King Lawn & Garden Fertilizer 5-10-5

AGRICULTURAL SUPPLY CO., 221 Richmond Ave., West
Haven, Conn.

Yale Special Mixture 8-6-2

ALASKA FERTILIZER CO., 84 Seneca St., Seattle 1, Wash.

Alaska 100% Organic Deodorized Fish Fertilizer 5-2-2

ALLIED CHEMICAL CORP., Nitrogen Division, P. O. Drawer 61,
Hopewell, Va.

"Arcadian" A-N-L Fertilizer Compound
"Arcadian" GOLD-AN Pelleted Ammonium Nitrate
"Arcadian" Golden Uran 30 Solution
"Arcadian" Golden Uran 32 Solution
"Arcadian" Nitrana Solution 2
"Arcadian" Nitrana Solution 3
"Arcadian" Nitrana Solution 4
"Arcadian" Nitrana U Solution
"Arcadian" Nitrate of Soda
"Arcadian" Urea 45 Fertilizer Compound (Pelleted)

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St.,
North Weymouth 91, Mass.

AA Plant Food 5-10-5
AA Plant Food 10-6-4
AA Quality Fertilizer 0-15-30
AA Quality Fertilizer 5-8-7
AA Quality Fertilizer 7-7-7
AA Quality Fertilizer 8-16-16
AA Quality Fertilizer 10-10-10
AA Quality Fertilizer 15-10-10
AA Quality Fertilizer 5-10-10 with 1.2 Magnesium
Agrico A.C.R. Fertilizer 6-10-4
Agrico Country Club 8-6-4
Agrico Country Club 10-6-4
Agrico Country Club Fertilizer 12-4-8
Agrico Country Club 16-8-8
Agrico Evergreen Fertilizer 10-6-4
Agrico for Corn 10-20-20
Agrico for Gardens 5-10-5
Agrico for Lawns, Trees & Shrubs 6-10-4
Agrico for Potatoes 5-10-10 with 1.2 Magnesium
Agrico for Seeding Down 5-20-20
Agrico for Topdressing 12-12-12
Agrico for Topdressing 15-10-10
Agrico Grass Food 10-6-4
Agrico Insect Control with Fertilizer 5-9-6
Agrico Phosphate & Potash 0-10-30
Agrico Phosphate & Potash 0-20-20
Agrico Rose Food 5-9-6
Agrico Tonic for Lawns 25-10-5
Agrico Weed Control with Fertilizer 5-9-6
Agrinite
18% Normal Superphosphate
Agri-Phos 20% Superphosphate
Ground Phosphate Rock
Homestead Farm Style Multi-Purpose Fertilizer
5-10-5
Homestead Farm Style Multi-Purpose Fertilizer
10-6-4

AMERICAN CYANAMID CO., P. O. Box 400, Princeton, N. J.

AERO Cyanamid, Granular
AERO-PHOS Ammonium Phosphate 11-48-0
AERO-PHOS 18-46-0 Diammonium Phosphate
AERO Phosphoric Acid
AEROPRILLS, Ammonium Nitrate Fertilizer
AERO Urea Coated Prills
Amanol Nitrogen Solution
TREBO-PHOS Triple Superphosphate

AMERICAN HUMATES, INC., Fidelity Union Tower, Dallas 1, Tex.

Aqua Humus

ARMOUR AGRICULTURAL CHEMICAL CO., P. O. Box 10,
Carteret, N. J.

Armour Armorganic Plant Food
Armour Big Crop Fertilizer 0-20-20
Armour Big Crop Fertilizer 5-8-7
Armour Big Crop Fertilizer 5-10-5
Armour Big Crop Fertilizer 5-10-10
Armour Big Crop Fertilizer 7-7-7
Armour Big Crop Fertilizer 10-10-10
Armour Big Crop Superphosphate
Armour Bone Meal Fertilizer
Armour Cattle Manure
Armour Gold Bond Tobacco Grower
Armour Home & Garden Special 5-10-5
Armour Lawn Special 10-6-4
Armour Lightweight Vertagreen Lawn Fertilizer 20-10-10
Armour Sheep Manure
Armour Vertagreen for Acid-Loving Plants 5-10-10
Armour Vertagreen for Lawns & Gardens 5-10-5
Armour Vertagreen 10-6-4 for Turf (60% Organic
Nitrogen)
Armour Vertagreen Plant Food 5-10-5
Armour Vertagreen Plant Food 5-10-5 with 2, 4-D
Weed Killer
Armour Vertagreen Plant Food for Commercial Crops
6-12-12
Armour Vertagreen Plant Food for Commercial Crops
Tobacco Special 6-4-7
Armour Vertagreen Plant Food for Turf & Trees 10-6-4
Armour Vertagreen Rose Food 5-10-5
Armour Vertagreen Turf Food with Chlordane
Armour Vertagreen Turf Formula 8-6-2 (50% Organic
Nitrogen)

ASGROW SEED CO., 272 George St., New Haven, Conn.

Asgrow Gro-Sod Lawn Food 22-8-4
Asgrow Weed-Nix Lawn Food 17-4-4
Breck's Feed no Weed 17-4-4
Breck's Garden-Gro 5-10-10
Breck's Greenite 5-4-0

ASGROW SEED CO., 272 George St., New Haven, Conn. - Cont.

Breck's Improved Turf-Gro 22-8-4

Breck's Quick Life 16-32-16

Breck's Turf-Gro 8-6-2

ATLANTIC SEED CO., Martinsville, N. J.

(Registered by Loft Pedigreed Seed Co., Round Brook,
N. J.)

Atlantic's Lightweight Fertilizer for Turf 20-10-5

Atlantic's Weed & Feed 20-10-5

H. J. BAKER & BRO., INC., 733 Third Ave., New York 17, N. Y.

Cobelaz Urea

BAKER CASTOR OIL CO., 40 Avenue A, Bayonne, N. J.

(Registered by Hubbard-Hall Chemical Co., Waterbury,
Conn.)

Baker's Castor Pomace

F. A. BARTLETT TREE EXPERT CO., 2770 Summer St.,
Stamford, Conn.

Bartlett Green Tree Food 6-8-6

BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave.,
Baltimore 26, Md.

Blackstone Fair Lawn 50% Organic

Blackstone Fair Lawn 20-10-5

Blackstone Ranch Home 5-10-5

BONIDE CHEMICAL CO., INC., 382 N. Genesee St.,
Utica 4, N. Y.

Weed & Feed 17-4-4

THE BORDEN CHEMICAL CO., A Division of The Borden Co.,
350 Madison Ave., New York 17, N. Y.

Borden's "38"

BROOKSIDE NURSERIES, INC., 228 Brookside Rd., Darien,
Conn.

Brookside's Bone Meal

Brookside's Dried Blood

Brookside's Horn Shavings & Meal

Brookside's Natures Evergreen 5-4-4

Brookside's Natures Nutrients 6-6-8

Brookside's Natures Thrift Food 4-4-4

BUCKEYE CELLULOSE CORP., 942 Sterick Bldg., Memphis,
Tenn.

Buckeye 41% Protein Cottonseed Meal for Fertilizer

W. ATLEE BURPEE CO., 18th & Hunting Park Ave.,
Philadelphia, Pa.

Burpee Lawn Food 20-10-5

CADWELL & JONES, INC., 199 Walnut St., Hartford, Conn.

Bone Meal

C & J Hi Organic Fertilizer 10-6-4

C & J 7500 Lawn Food 15-10-10

C & J Lawn Food with Weed Killer 20-10-5

C & J Plant Food 5-10-5

CALIFORNIA CHEMICAL CO., Ortho Div., Lucas and Ortho Way, Richmond 4, Calif.

ORTHO-GRO Liquid Plant Food 10-5-5

ORTHO-GRO Liquid Plant Food 10-5-5

ORTHO-GRO Liquid Plant Food 15-5-5

ORTHO Liquid Evergreen & Azalea Food 10-8-7

ORTHO Liquid Rose Food 8-12-4

ORTHO 18-46-0 Pelleted Fertilizer

ORTHO Prilled Ammonium Nitrate Fertilizer

ORTHO Triple Superphosphate 0-46-0

ORTHO UNIPEL Fertilizer 16-16-16

ORTHO UNIPEL 10-20-20 Pelleted Fertilizer

ORTHO UNIPEL 14-14-14 Pelleted Fertilizer

ORTHO UNIPEL 16-48-0 Pelleted Fertilizer

ORTHO UNIPEL 20-10-10 Pelleted Fertilizer

ORTHO UNIPEL 20-20-0 Pelleted Fertilizer

ORTHO UNIPEL 22-22-0 Pelleted Fertilizer

ORTHO UNIPEL Starter Special Fertilizer 13-34-10

TRONA Muriate of Potash 0-0-60

CARBOLA CHEMICAL CO., INC., Natural Bridge, N. Y.

Carbola CCC Triple 20 Plant Food

PETER CASCIO NURSERY, INC., 2600 Albany Ave.,
West Hartford, Conn.

Cascio's High Organic 10-6-4 Lawn Food

Cascio's Organite

Cascio's Professional 5-10-5 Lawn Food

CENTRAL SOYA, Fort Wayne, Ind.

Forty Four 44% Solvent Extracted Soybean Meal

CHILEAN NITRATE SALES CORP., 120 Broadway,
New York 5, N. Y.

Chilean Nitrate of Soda - Champion Brand

Chilean Nitrate of Soda-Potash - Champion Brand

CLORO-SPRAY CORP., 2215 N. American St., Philadelphia 33, Pa.

Cloro-Spray

Fairway-Spray 15-10-5

COCKE & CO., 208 William Oliver Bldg., Atlanta 3, Ga.

Cocke-Sure Brand 41% Protein Cottonseed Meal

CONSOLIDATED RENDERING CO., 178 Atlantic Ave., Boston, Mass.

Corenco 0-15-30

Corenco 0-20-20

CONSOLIDATED RENDERING CO., 178 Atlantic Ave.,
Boston 10, Mass. - Cont.

Corenco 5-8-7
Corenco 5-10-5
Corenco 5-10-5 Home Garden
Corenco 5-10-5 Rose Food
Corenco 5-10-10
Corenco 5-10-10 1.2 mag.
Corenco 5-10-10 Liquid Fertilizer
Corenco 6-3-6 Perfection
Corenco 6-3-6 Premium
Corenco 6-8-8 1.2 mag.
Corenco 7-7-7
Corenco 7-7-7 Rhododendron
Corenco Landscape 8-6-2 40% Organic
Corenco 8-6-4 Landscape
Corenco 8-6-4 Turf Green
Corenco 8-12-12 .9 mag
Corenco 8-16-16
Corenco 10-5-5 Liquid Green
Corenco 10-6-4 Golf & Lawn
Corenco 10-6-4 Pro-Grass
Corenco 10-10-10
Corenco 15-10-10
Corenco Golf & Lawn with Dacthal 10-6-4
Corenco Ground Bone
Corenco Landscape 8-6-2 40% Organic
Corenco Muriate of Potash
Corenco Organic Turf Fertilizer
Corenco Organo 10-5-5
Corenco Sheep Manure with Inert Matter
Corenco Spurz-On
Corenco Sulphate of Ammonia
Corenco Sulphate of Potash
Corenco Superphosphate 20%
Corenco Triple Superphosphate
Corenco Timberline 10-8-2
Corenco Turf Green 8-6-4 with Chlordane
Corenco Weed & Feed 18-3-5
Cottonseed Meal
Dried Blood
Luzerne All Purpose Plant Food 5-10-5
Luzerne Lawn Food 10-6-4

THE DAVEY TREE EXPERT CO., 117 S. Water St., Kent, Ohio

Arbor-Green
Davey Tree Food
Da-V-Green

DAYTON FERTILIZER CORP., Georges Rd., Dayton, N. J.

Grand Garden Fertilizer 6-10-4
Grand Lawn Lightweight Fertilizer 15-7-5
Grand Lawn Fertilizer 10-6-4 40% Organic

DELPHOS SOYA PRODUCTS CO., 234 S. Jefferson St.,
Delphos, Ohio

44% Protein Soybean Meal (Solvent Extracted)

THE DOUGHTEN SEED CO., 253 Brunswick St., Jersey City 2, N. J.

Doughten's Allganic 4-6-2

Doughten's Lawn Food 9-8-3

E. I. du PONT de NEMOURS & CO., 6054 du Pont Bldg.,
Wilmington, Del.

Du Pont Nu Green Urea Fertilizer

Du Pont Turf Food 20-10-10

Du Pont Turf Food 20-10-10 with 2,4-D Weed Killer

Du Pont Uramite Ureaform Fertilizer

Du Pont Uramite M Ureaform Fertilizer

Du Pont Urea Nitrogen Fertilizer

EASTERN DEHYDRATING CO., Route 7, Lexington, N. C.

FERTAL-GRO (Dehydrated Cow Manure)

FERTAL-GRO (Dehydrated Sheep Manure)

FERTAL-GRO (T Mulch Ground Tobacco Stems)

EASTERN STATES FARMERS' EXCHANGE, INC., 26 Central
St., West Springfield, Mass.

Eastern States 0-10-30 W/B

Eastern States 0-10-30 W/V with 0.3% Heptachlor

Eastern States 0-25-25

Eastern States 5-10-10

Eastern States 8-16-16

Eastern States 10-6-4

Eastern States 10-10-10 .6 mag.

Eastern States 10-10-10 LC 1.2 mag.

Eastern States 10-15-15 with 1.2 mag.

Eastern States 10-15-15 LC with 1.2 mag.

Eastern States 10-20-10 with .6 mag.

Eastern States 10-20-20

Eastern States 15-10-10

Eastern States 15-15-15

Eastern States Bone Meal

Eastern States Di-Ammonium Phosphate

Eastern States Evergreen 8-8-8

Eastern States Garden Plant Food 5-10-10

Eastern States Green Lawn 10-5-5

Eastern States Green Lawn with Dacthal

Eastern States Rose Food 5-10-5

Eastern States Start-N-Gro

Eastern States Sulfate of Ammonia

Eastern States 20% Superphosphate

Muriate of Potash 60%

Wedco Fertilizer Bone Meal

EASTMAN GELATINE CORP., 227 Washington St., Peabody, Mass.

Dicalcium Phosphate

THE ESPOMA CO., P. O. Box 431, Millville, N. J.

Bulb-Tone
Espoma Organic
Espoma Rose Food
Garden-Tone
Holly-Tone
Turf-Tone 10-6-4

ESTATE FERTILIZER, Div. of Morris Karp & Son,
81 Secatogue Ave., Farmingdale, N. Y.

Estate 5-10-5
Estate 10-6-4

FAESY & BESTHOFF, INC., 25 East 26th St., New York 10, N. Y.

F & B Azalea-Camellia-Rhododendron Food
F & B Cottonseed Meal
F & B Evergreen Food 7-7-7
F & B Garden Food
F & B Nitrate of Soda
F & B Pure Steamed Bone Meal
F & B Rose Food

FEDERAL CHEMICAL CO., Prospect Plains, Cranbury, N. J.

Lawn & Garden 5-10-5
Lawn Life 10-6-4
Lawn Life 20-10-5
Federal Lawn Life Plant Food 100% Organic
Federal Lawn Life Plant Food 50% Organic
Lawn Master 5-10-5
Lawn Master 10-6-4
Lawn Master 20-10-5
Princeton Park 5-10-5
Princeton Park 10-6-4

FEINMAN & GOTTLEIB, 1150 Broadway, New York, N. Y.

Glorion 100% Organic Nitrogen
Glorion Weed & Feed

FIRST NATIONAL STORES, INC., East Hartford, Conn.

(Registered by Hubbard-Hall Chemical Co., Waterbury,
Conn.)

Emerald Green Lawn Food
Emerald Green Plant Food

GANSO PRODUCTS LTD., 62 Richmond St., W., Room 709,
Toronto 1, Ontario, Canada

Gard-N-Stik 5-4-4
Gard-N-Stik 6-12-12
Gard-N-Stik 12-8-6

THE GARDEN CENTER, INC., 53 LaSalle Rd., West Hartford,
Conn.

Garden Center of W. Hartford Lawn Food

GEIGY AGRICULTURAL CHEMICALS, Saw Mill River Rd.,
Ardsley, N. Y.

Sequestrene 138 Fe Iron Chelate
Sequestrene 330 Fe Iron Chelate
Sequestrene Na_2Cu Copper Chelate
Sequestrene NaFe Iron Chelate
Sequestrene Na_2Mn Manganese Chelate
Sequestrene Na_2Zn Zinc Chelate

GLEN TERRACE NURSERIES, INC., 1960 Whitney Ave.,
Hamden, Conn.

Glen Terrace Lawn Food

GODFREY'S GARDEN SHOP, 1630 Post Rd., Fairfield, Conn.
(Registered by Hubbard-Hall Chemical Co., Waterbury,
Conn.)

Godfrey's Lawn & Tree Food

GOLDENROD OIL MEAL SALES CO., 727 Beale St., Memphis,
Tenn.

Goldenrod Brand 41% Protein Cottonseed Meal

GOULARD & OLENA, INC., Skillman, N. J.

(Registered by Miller Chemical & Fertilizer Corp.,
Baltimore 15, Md.)

G & O Blue Ribbon for Fine Lawns, Flowers, Shrubs
& Vegetables

G & O Bone Meal

G & O Bulb Food

G & O Evergreen Food

G & O Green Ribbon 10-6-4

G & O Hyganic Lawn Food 10-6-4

G & O Light Fantastic Lawn Food 20-6-4

G & O Plant Food for Acid Loving Plants

G & O Prime Cottonseed Meal

G & O Prizegro for Gardens

G & O Raw Ground Bone

G & O Rose Feed

G & O Tomato and Fruit Food

Renzulli's 10-6-4

W. R. GRACE & CO., Davison Chemical Div., Hill Plant,
Baltimore 26, Md.

0-10-30 Davco Granulated 3-G Fertilizer

0-15-30 Davco Granulated Fertilizer

0-20-20 Davco Granulated Fertilizer

5-10-5 Davco Granulated 3-G Fertilizer

5-10-5 Davco Granulated Turf & Garden Food

10-10-10 Davco Granulated 3G Fertilizer

15-10-10 Davco Granulated 3G Fertilizer

5-10-10 Davco Granulated 3G Fertilizer

8-16-16 Davco Granulated 3G Fertilizer

W. R. GRACE & CO., Davison Chemical Div., Hill Plant,
Baltimore 26, Md. - Cont.

10-6-4 Davco Granulated 3-G Fertilizer

8-40-0 Granulated Magnesium Ammonium Phosphate
Fertilizer

Davco Granulated 20% Superphosphate

Davco Granulated Triple Superphosphate

W. R. GRACE & CO., Nitrogen Products Div., P. O. Box 277,
147 Jefferson Ave., Memphis 3, Tenn.

Grace Urea Prills - 45

Grace Urea Prills - 46

THE GREENLIFE PRODUCTS CO., West Point, Va.

Greenlife Plant Food

Greenlife Rose Food 8-8-8

GREEN RIBBON PRODUCTS CO., Sackett Point Rd.,
North Haven, Conn.

Green Ribbon 5-10-5

Green Ribbon 10-6-4

HALSTEAD DISTRIBUTING CORP., Suttons Lane,
Mt. Kisco, N. Y.

Just Right 5-10-5

Just Right 10-6-4

THE CHARLES C. HART SEED CO., 304 Main St.,
Wethersfield, Conn.

Deane's Formula 22-35X

Hart's All Organic

Hart's All Purpose Plant Food

Hart's Crabgrass Seed Killer & Lawn Fertilizer

Hart's Rose Food

Hart's Turf Food

Hart's Two-For-One

HAYNIE PRODUCTS, INC., 108 East York St., Baltimore 30, Md.

Hi-Seas Menhaden Fish Meal with Butylated
Hydroxy Toluene

HERCULES POWDER CO., Hercules Tower, 910 Market St.,
Wilmington 99, Del.

Hercules-Nitroform

HERITAGE HOUSE PRODUCTS, INC., 701 S. Front St.,
Philadelphia 47, Pa.

Heritage House Evergreen Food

Heritage House Extended Action Lawn Food

Heritage House Lawn Food

Heritage House Three in One

Heritage House Weed Killer plus Lawn Food

Seaboard Hi Acid Plant Food

Society Hill Lawn Feeder

HERSHEY ESTATES, INC., Hershey, Pa.

Ko-K-O Meal

A. H. HOFFMAN, INC., Landisville, Pa.

Hoffman Bone Meal

Hoffman Cow Manure (Dehydrated)

Hoffman Rose Food 5-10-5

Hoffman Sheep Manure (Dehydrated)

Mistress Mary Brand Fertilizer for Gardens

Mistress Mary Brand Sterilized Bone Meal

HOLDRIDGE FARM NURSERY, Route 27, R. D. 4,

Ledyard, Conn.

(Registered by Miller Chemical & Fertilizer Corp.,
Baltimore 15, Md.)

Holdridge 20-6-4 Turf Food

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,

Waterbury, Conn.

Cotton Hull Ashes

Domestic Precipitated Bone

Dried Blood

Dry Ground Fish

Green Gro Lawn Fertilizer

HH Blade Lawn Food

HH Bone Meal

HH Cow Manure

HH Evergreen Food 4-10-4

HH Gro-Fast Sol Water Soluble Concentrate

HH Gro Mor Garden Fertilizer

HH Lawn Fertilizer with Chlordane

HH Luxura Lawn Food

HH Nitrogranic

HH Plant Food

HH Rose Food

HH Sheep Manure

HH Turf & Tree Food

HH Turf & Tree Food with Zytron

HH Weed-Kil Lawn Food with 2, 4-D

Lawn Craft Fertilizer 10-6-4

Lawn Craft Fertilizer with Fish Base 8-6-4

Lawn Craft Fertilizer with Urea Form 20-6-4

Lawn Craft Turf Fertilizer 8-6-4

Lawn Craft Tree & Shrub Food 6-7-4

Lawn Craft Turf Fertilizer 10-5-5

Lawn Craft Turf Fertilizer with Chlordane 8-6-4

Lawn Craft Turf Food 6-12-4

Lawn Craft VFT Turf Food 5-4-0

Lawn Craft VFT Fortified Turf Food 9-5-3

Liberty Diammonium Phosphate 18-46-0

Liberty Fertilizer Blueberry Special 10-5-10

Liberty Fertilizer 0-10-30

Liberty Fertilizer 0-15-30

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St.,
Waterbury, Conn. - Cont.

Liberty Fertilizer 0-20-20
Liberty Fertilizer 5-8-7
Liberty Fertilizer 5-10-5
Liberty Fertilizer 5-10-10
Liberty Fertilizer 5-10-10 1.2 mag.
Liberty Fertilizer 7-7-7
Liberty Fertilizer 8-12-12 1.2 mag.
Liberty Fertilizer 8-16-16
Liberty Fertilizer 10-6-4
Liberty Fertilizer 10-10-10
Liberty Fertilizer 15-10-10
Liberty Fertilizer 15-15-15
Liberty Fertilizer 16-8-16
Liberty H. G. Market Gardeners
Liberty Super Bacco 6-4-7 1.2 mag.
Liberty Super Corn Fertilizer 10-10-10
Liberty Super Gro 6-8-8 1.2 mag.
Liberty Super Gro Fertilizer 5-10-10 1.2 mag.
Liberty Super Gro Fertilizer 6-12-12
Liberty Super Spud 500 5-8-8 1.2 mag.
Liberty Super Spud Fertilizer 6-8-8 1.2 mag.
Liberty Super Spud Fertilizer 8-10-10 1.2 mag.
Liberty Tobacco Fertilizer 6-3-6
Liberty Tobacco Fertilizer, Half & Half 6-3-6
Liberty Truck Garden & Onion Fertilizer 5-10-5
Muriate of Potash
Nitrate of Potash
Soya Bean Meal
Sulphate of Ammonia
Sulphate of Potash
Superphosphate 20%
Superphosphate 46%
Urea 46%
Woodruff's Lawn & Tree Food

INTERNATIONAL MINERALS & CHEMICAL CORP., 316 New
Boston St., Woburn, Mass.

A-Penn Marvel Green 20-10-5
Diammonium Phosphate
Fertilis All Purpose Plant Food 5-10-5
Fertilis (50% Organic) 10-6-4
Gold Seal 20-10-5
International 5-10-10 (with Dieldrin)
Mello-Green 5-5-0
Muriate of Potash
Nitrate of Potash
Sul-Po-Mag
Thrive Lawn Food
Triple Superphosphate

SPENCER KELLOGG & SONS, INC., Division of Textron, Inc.,
120 Delaware Ave., Buffalo, N. Y.

Kellogg's 31% Protein Old Process (Expeller) Linseed Meal

LEBANON CHEMICAL CORP., P. O. Box 693, Lebanon, Pa.

Granulated 20% Superphosphate
Lebanon Azalea & Evergreen Food with Chelated Iron
Lebanon Bone Meal
Lebanon Crab Grass Killer & Lawn Fertilizer 10-6-4
Lebanon Fertilizer 5-10-10
Lebanon Hi-Organic
Lebanon Rose Food
Lebanon Truck Crop
Lebanon Turf Organic
Lebanon Uni-Form
New Turf 5-10-5
New Turf 10-6-4 100% Organic N
Pennsylvania Dutch Plant Food 5-10-5
Pennsylvania Dutch 10-6-4

LOFTS PEDIGREED SEED CO., Chimney Rock Rd., Bound Brook, N. J.

Lofts for Turf
Lofts Lightweight Fertilizer for Turf 20-10-5
Lofts Weed & Feed

THE MAMLON CO., P. O. Box 3046, New Haven 15, Conn.

FER-MEL General Purpose Plant Food
FER-MEL Premium Lawn Food
FER-MEL 50 Supreme Lawn Food
FER-MEL Water Soluble Turf & Tree Food

McARDLE'S SEED CO., 388 Greenwich Ave., Greenwich, Conn.

McArdle's 10-6-4

McNAIR FARMS, P. O. Box 1509, Laurinburg, N. C.

McNair Organure

MILLER CHEMICAL & FERTILIZER CORP., 3006 W. Cold Spring Lane, Baltimore 15, Md.

Miller Azalea Food contains Chelated Iron
Miller Mico-Organic Mineralized Plant Food
Miller 10-6-4 plus 3

MONSANTO CHEMICAL CO., 800 N. Lindbergh Blvd., St. Louis 66, Mo.

Monsanto Ammonium Nitrate Fertilizer
Monsanto Diammonium Phosphate
Monsanto Monoammonium Phosphate
Monsanto Phosphatic Fertilizer Solution
Monsanto Prilled Urea Fertilizer

NATURAL DEVELOPMENT CO., Perry Hall, Md.

Fertrell, Blue Label
Fertrell, Gold Label
Fertrell, Super
Fertrell, Super "N"

NATURAL PLANT FOOD CO., 1409 N.W. 50th St., Oklahoma City, Okla.

Longhorn Brand Cattle Manure
Ramshorn Brand Sheep Manure

NELSEN STEEL & WIRE CO., 9400 W. Belmont Ave., Franklin Park, Ill.

GREEN GARDE

OLD DEERFIELD FERTILIZER CO., South Deerfield, Mass.

(Registered by Hubbard-Hall Chemical Co., Waterbury, Conn.)

Deerfield Lawn Food
Deerfield Plant Food

OLD FOX AGRICULTURAL SALES, INC., 66 Valley St., East Providence, R. I.

Green Lawn 8-6-4
Old Fox Brand 0-20-20
Old Fox Brand 5-10-5
Old Fox for Acid Soils - Plants 6-10-6
Old Fox 0-15-30
Old Fox 0-20-0
Old Fox 4-16-20
Old Fox 5-10-10
Old Fox 5-10-10 1.2 mag.
Old Fox 6-3-6
Old Fox 6-3-6 1.2 mag.
Old Fox 6-8-8 1.2 mag.
Old Fox 6-10-10 1.2 mag.
Old Fox 7-7-7
Old Fox 8-10-10 1.2 mag.
Old Fox 8-16-16
Old Fox 10-10-10
Old Fox 15-10-10
Old Fox Fertilizer 8-6-4
Old Fox Garden Food 5-10-5
Old Fox No Pest Turf Food 8-6-2
Old Fox Organo
Old Fox Rose Food 6-10-6
Old Fox Turf Food 8-6-2
Old Fox Turf Food 10-6-4
Old Fox Turf Food & Crab Control 8-6-2
Steamed Bone Meal

OLIN MATHIESON CHEMICAL CORP., P. O. Box 991, Little Rock, Ark.

Ammo-Phos 13-13-13 with Potash
Mathieson 5-10-5 Pelleted

ORGANIC COMPOST CORPORATION OF PENNSYLVANIA, P. O. Box 70, Oxford, Pa.

Fertie Composted Cow Manure

ORGANIC COMPOST CORPORATION OF PENNSYLVANIA,
P. O. Box 70, Oxford, Pa. -Cont.

Fertie Composted Sheep Manure
Gardener's Cow Manure Compost
Gardener's Sheep Manure Compost
Queen Turf Composted Cow Manure
Queen Turf Composted Poultry Manure

ORGANIC GROWTH PRODUCTS CO., P. O. Box 446,
Farmingdale, N. J.

MIRACLE ORGA-VITE Lawn Fertilizer

LEE PATTEN SEED CO., 360 Ninth St., Jersey City 2, N. J.

Patco's Allganic 4-6-2
Patco's Chek 10-6-4 with Diphenatrile
Patco's Combo with 2, 4D plus 2, 4, 5T
Patco's Featherweight (Lawn Food)
Patco Lawn Food 9-8-3
Sod-Maker

PAX COMPANY, P. O. Box 2310, Salt Lake City 10, Utah
New Pax Crabgrass and Soil Pest Control

JOHN J. PEPIN & CO., 314 Cotton Exchange Bldg.,
Memphis, Tenn.

"Lovit Brand" 41% Protein Cottonseed Meal Prime Quality

PERK-UP PRODUCTS CO., South Deerfield, Mass.

(Registered by Hubbard-Hall Chemical Co., Waterbury,
Conn.)

Perk-up New Light Weight Lawn Food
Perk-up Lawn Food
Perk-up Plant Food

ROBERT B. PETERS CO., INC., 2833 Pennsylvania St.,
Allentown, Pa.

Peters Easter Lily Special 16-4-12
Peters Geranium Special 15-15-15
Peters Pot Mum Special 15-10-30
Peters Special 20-5-30
Peters Special 20-20-20
Peters Special 25-5-20
Peters Special 25-10-10

PLANTERS OIL MILL, Tunica, Miss.

41% Protein Cottonseed Meal Prime Quality

FRANK POLICASTRO & SONS, INC., Glenbrook, Conn.

(Registered by Hubbard-Hall Chemical Co.,
Waterbury, Conn.)

Policastro Blue Chip Turf & Tree Food

PRIDE OF THE VALLEY MILLS, Vernon, N. J.
Fiestar

RA-PID-GRO CORP., 88 Ossian St., Dansville, N. Y.

Ra-Pid-Gro

RUHM PHOSPHATE & CHEMICAL CO., 305 W. 7th St.,
Columbia, Tenn.

Red Seal Brand Ruhm's Phosphate Rock

O. M. SCOTT & SONS CO., Marysville, Ohio

Bonus

Dawn

Turf Builder

SEABOARD SEED COMPANY, 701 S. Front St., Philadelphia, Pa.

Seaboard's Lawn & Plant Food

Seaboard's Lawn Feeding Weed Killer

SEARS, ROEBUCK & CO., 925 S. Homan Ave., D/671,
Chicago 7, Ill.

Cross Country Azalea Food

Cross Country Bone Meal

Cross Country Bulb Food

Cross Country Crabgrass Plant Killer with Lawn Food

Cross Country Economy Fertilizer

Cross Country Evergreen Food

Cross Country Hi-Organic

Cross Country Instant Plant Food

Cross Country Instant Rose Food

Cross Country Instant Tomato Food

Cross Country Lawn Food

Cross Country Lawn Quick Green 10-6-4

Cross Country Liquid Plant Food

Cross Country Merion Bluegrass Lawn Food

Cross Country Organic Cattle Manure Compost

Cross Country Organic Sheep Manure Compost

Cross Country Plant Food

Cross Country Rose Food

Cross Country Sulfate of Ammonia

Cross Country Superfine Lawn Food

Cross Country Weed Killer with Lawn Food

SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE,
P. O. Box 2079, Milwaukee 1, Wis.

Milorganite (50 lb. bag size)

Milorganite Plus 2, 4-D

THE SHERWIN-WILLIAMS CO., 101 Prospect Ave., N. W.,
Cleveland, Ohio

Sherwin-Williams 32% Linseed Oil Meal (Solvent
Extracted)

M. L. SHOEMAKER, Div. Wilson & Co., Delaware & Venango
Sts., Philadelphia, Pa.

M. L. Shoemaker's "Swift-Sure"

THE SOUTHERN COTTON OIL CO., Div. Hunt Foods &
Industries, Inc., S. John St., Goldsboro, N. C.

Sco-Co 41% Protein Cottonseed Meal

THE STANFORD SEED CO., 560 Fulton St., Buffalo, N. Y.

Stanford Lawn & Plant Food 20-10-5

Stanford Weed & Feed 10-6-4 plus 1% 2, 4-D

STERN'S GARDEN PRODUCTS, INC., 404 William St.,
Geneva, N. Y.

Miracid

Miracle-Gro

Miracle-Gro for Roses

STIM-U-PLANT LABORATORIES, INC., 2077 Parkwood Ave.,
Columbus 19, Ohio

Stim-U-Plant 5-8-7

Stim-U-Plant 11-12-15

SWIFT & CO., Agrichem Div., Box 1404, New Haven 5, Conn.

All Purpose Vigoro

Golden Rod

Golden Vigoro

Golden Vigoro with End-O-Pest

Instant Vigoro

Liquid Vigoro for African Violets

Liquid Vigoro for House Plants

Par-Ex

Pink Vigoro

Swift's Aluminum Sulphate

Swift's Bone Meal

Swift's Cottonseed Meal

Swift's Nitrate of Soda

Swift's Red Steer

Swift's Sulphate of Ammonia

Vigoro Azalea & Camellia Food

Vigoro for Azaleas & Camellias

Vigoro Lawn Weeder & Feeder

Vigoro Rose Food

Vitogro Azalea & Camellia Food

Vitogro Crabgrass Preventer

Vitogro for Grass

Vitogro Garden Grower

Vitogro Lawn Pest Control & Plant Food

Vitogro Lawn Weeder & Feeder

Vitogro Rose Food

Vitogro Triple Acting Crabgrass Control

SWISS FARMS, INC., Philmont, N. Y.

African Violet Food

Fish Emulsion Fertilizer

Plantdrops Liquid

Plant Food 6-15-11

Plant Food Liquid

Rose Food 6-15-11

L. TEWELES SEED CO., 222 S. 3rd St., Milwaukee 1, Wis.

TEWELES NU-TURF House Plant Food & Rose Food
TEWELES NU-TURF Lawn Fertilizer 20-10-5

TOWN & COUNTRY PRODUCTS, 1072 West Side Ave.,
Jersey City, N. J.

Green Pride Lawn & Plant Food

U. S. BORAX & CHEMICAL CORP., Weed Control Dept.,
630 S. Shatto Pl., Los Angeles 14, Cal.

(Registered by Eastern States Farmers' Exchange, Inc.,
W. Springfield, Mass., & Hubbard-Hall Chemical Co.,
Waterbury, Conn.)

20 Mule Team Borax, Granular 8/40 Special Mesh
Technical, 99 1/2-100% Pure

20 Mule Team Fertilizer Borate-46 (High Grade Coarse
Mesh)

U. S. PHOSPHORIC PRODUCTS, Div. Tennessee Corp.,
P. O. Box 3269, Tampa 1, Fla.

Tencor Triple "46" Granulated Triple Superphosphate

UNITED STATES STEEL CORP., 525 William Penn Pl.,
Pittsburgh 30, Pa.

USS Ammonium Sulfate

UNIVERSAL CHEMICAL CO., INC., Box 195, West Lynn, Mass.

Electra Plant Food 5-10-3
Triple 20

VALLEY FEED & SUPPLY CO., INC., Union Rd.,
Spring Valley, N. Y.

Adorna 3-1-1
Adorna Azalea Food 6-10-5
Adorna Tree Food 8-7-7

VALU-GRO CORP., Box 21, Princeton, N. J.

(Registered by Miller Chemical & Fertilizer Corp.,
Baltimore 15, Md.)

Union 5-10-5 Fertilizer
Union 10-6-4 Fertilizer
Valu-Gro All Purpose 10-6-4

VAUGHAN'S SEED COMPANY, 5300 Katrine Street,
Downer's Grove, Ill.

Vaughan's One Shot Lawn Food
Vaughan's 100% Organic Fertilizer

WALKER-GORDON LABORATORY COMPANY,
Plainsboro, N. J.

Bovert
Bovung

OSCAR F. WARNER, 24 E. Aurora St., Waterbury, Conn.

Warner's Grubedizer

Warner's Lawn Food

Warner's Tree Food 12-6-4

WESTERN AUTO SUPPLY, Kansas City, Mo.

(Registered by L. Teweles Seed Co., Milwaukee 1, Wis.)

Western Auto Revelation 20-10-5

Western Auto Revelation Weed & Feed 20-10-5 with 2, 4-D

WHITNEY SEED CO., INC., 599-601 Perry St., Buffalo 5, N. Y.

Whitney's Vital Brand Lawn Fertilizer

Whitney's Vital Brand Fertilizer Plus Weed and Feed

WILBUR-ELLIS CO., 800 Second Ave., New York, N. Y.

Menhaden Fishmeal

GARFIELD WILLIAMSON, INC., 1072 West Side Ave.,
Jersey City, N. J.

Plantspur

Wonderlawn Lawn Food

Wonderlawn all in one 100% Organic Nitrogen

Wonderlawn Turf Culture Lawn Food

ANDREW WILSON, INC., Baltusrol Way, Springfield, N. J.

Wilson's Eureka Plant Food

S. D. WOODRUFF & SONS OF WETHERSFIELD, INC.,
304 Main St., Wethersfield, Conn.

Woodruff's Tuf Turf Lawn Fertilizer 20-10-5

Woodruff's Tuf Turf Food

Woodruff's Tuf Turf Two-For-One

ZEP MANUFACTURING CORP., 1310 Seaboard Industrial
Blvd., N. W., Box 2015, Atlanta 1, Ga.

Zep Liquid Plant Food

FERTILIZER INSPECTION FOR 1963

The Connecticut fertilizer law does not provide for compulsory limitation of the grades of fertilizer that may be sold in this State, but because it is generally agreed that a small number of grades can take care of all the needs of agriculture, and that standardization on a few grades will promote economy of manufacture and consequent lower prices, the New England agronomists have from time to time compiled lists of recommended fertilizer ratios and minimum grades.

The latest list of ratios, as finally approved at a meeting in Burlington, Vermont on June 19, 1961, and the most common market grades, are as follows:

<u>Ratio</u>	<u>Most Common Grade</u>
0-1-1	0-20-20
0-1-2	0-15-30
0-1-3	0-10-30
0-1-4	0-10-40
0-3-1	0-30-10
1-1-1	10-10-10
1-2-2	5-10-10
1-4-2	3-12- 6
2-1-1	10- 5- 5
2-1-2	6- 3- 6
2-3-3	8-12-12
3-2-2	15-10-10
3-4-4	6- 8- 8
4-2-3	16- 8-12
4-3-1	8- 6- 2

Sixty-nine per cent of the mixed fertilizers sold in this State during the 1962-1963 season were of the recommended ratios in grades whose plant food content equalled or exceeded the "most common grades" listed above. Five grades each of which sold at least 1,000 tons (5-10-5, 8-6-4, 8-10-10, 10-6-4 and 20-10-5) took care of another 22 per cent. The numerous remaining grades accounted for only nine per cent of the total tonnage. This total exceeded that for the 1961-1962 season by only 169 tons.

During the past season the Station agent collected samples of all registered brands that could be found on the market. The total number of official samples was 577.

The following tabulation lists the number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold during the period between July 1, 1962 and June 30, 1963:

CLASSIFICATION OF FERTILIZER MATERIALS AND FERTILIZER TONNAGE

(Tonnage is for the period of July 1, 1962 to June 30, 1963)

	No. of Samples	Tonnage	
I. Containing chiefly nitrogen:			
Nitrate of ammonia	4	380	
Nitrate of soda	3	259	
Sulphate of ammonia	1	71	
Cyanamid	1	110	
Urea	7	446	
Nitrogen solutions	-	539	
Castor pomace	5	1,116	
Cottonseed meal	52	3,320	
Dried blood	4	5	
Horn and hoof meal	1	12	
Linseed meal	7	130	
Soybean meal	3	249	
Tankage	1	11	
Other materials	7	523	
			7,171
II. Containing chiefly phosphoric acid:			
Superphosphate 18%	-	31	
20%	7	3,393	
46%	5	269	
Dicalcium phosphate	2	392	
Phosphate rock	2	30	
Precipitated bone	1	231	
			4,346
III. Containing chiefly potash:			
Muriate of potash	4	201	
Sulphate of potash	1	91	
Sulphate of potash-magnesia	-	12	
Cotton hull ashes	7	267	
Other materials	1	-	
			571
IV. Containing nitrogen and phosphoric acid:			
Dry ground fish	9	214	
Bone meal	16	282	
Diammonium phosphate	1	42	
Other materials	1	1,145	
			1,683
V. Containing nitrogen and potash:			
Nitrate of potash	5	142	
Nitrate of soda-potash	1	-	
			142
VI. Mixed fertilizers:			
Commercial mixtures	378	49,342 ¹	
Special and home mixtures	5	8,395	
			57,937
VII. Miscellaneous:			
Borax	2	8	
Magnesium sulphate	-	8	
Sheep and cattle manure	21	1,264	
Limestone and similar materials	5	-	
Fertilizer sold in small packages	81	-	
Other miscellaneous materials	12	-	
Check meals and fertilizers	30	-	
			1,280
Totals	693		73,130

¹ For distribution of this tonnage see next page.

MIXED FERTILIZER TONNAGE

Grades approved for Connecticut

<u>Grade</u>	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>
0-10-30	1,463	10-20-20	586
0-15-30	1,306	12-12-12	9
0-20-20	356	13-13-13	35
0-25-25	278	14-14-14	10
5-10-10	5,667	15-10-10	3,934
6- 3- 6	2,589	15-15-15	883
6- 8- 8	3,426	16- 8- 8	37
6-12-12	69	16- 8-16	70
8- 6- 2	249	16-16-16	21
8-12-12	494	18-18-18	4
8-16-16	1,381	20-10-10	293
10- 5- 5	1,382	20-20-20	16
10-10-10	9,302	24-12-12	35
Total			33,895

Other Grades
(50 tons or more)

3- 1- 1	64	8-10-10	1,308
3- 2- 1	75	8-12- 6	60
4- 6- 4	51	9- 8- 3	58
4-16-20	169	10- 6- 4	4,723
5- 5- 0	63	10-15-15	155
5- 8- 7	361	10-20-10	57
5-10- 5	2,070	12- 4- 8	60
6- 8- 6	125	12- 5- 7	473
6-10- 4	557	15- 5- 5	53
6-10-10	435	20-10- 5	1,795
7- 7- 7	724	22- 8- 4	156
8- 6- 4	1,023	25-12-10	232
8- 8- 8	93		
Total			14,940

(Less than 50 tons)

4- 4- 4	24	6-10- 5	10
4- 6- 2	10	6-12- 4	33
5- 4- 0	15	8- 7- 7	12
5- 4- 4	18	8-40- 0	11
5- 5- 5	12	9- 5- 3	24
5- 8- 8	13	10- 5-10	11
5- 9- 6	32	10- 8- 2	10
5-20-20	13	12- 4- 4	14
6- 4- 7	27	16- 8- 4	13
6- 6- 8	24	17- 4- 4	13
6- 7- 4	25	20- 6- 4	12
6- 8- 2	22	Other grades	109

Total 507

Grand total 49,342

I. Materials Chiefly Valuable for Nitrogen

Analyses of 62 official samples of nitrogenous materials are given in Table 1. Fifty-nine of these met their guaranties and three were deficient. The substandard samples included two of dried blood and one of ammonium nitrate.

II. Materials Chiefly Valuable for Phosphoric Acid

Analyses of seven official samples of 20 per cent superphosphate and four of the 46 per cent grade, and two each of dicalcium phosphate and phosphate rock, are given in Table 2. Of the total of 15 samples, 13 met their guaranties, while one each of "triple" superphosphate and dicalcium phosphate was deficient.

III. Materials Chiefly Valuable for Potash

Five samples of cotton hull ashes, four of muriate of potash, and one each of sulphate of potash and "fritted potash", were analyzed; results are given in Table 3. All samples met their guaranties except one each of muriate and sulphate of potash.

IV. Materials Supplying Nitrogen and Phosphoric Acid

This group consists chiefly of dry ground fish and bone meal. Guaranties of "available" phosphoric acid are not required of such natural products, and most of them guarantee only total nitrogen and total phosphoric acid. Sixteen official samples of bone meal, five of dry ground fish, and one each of "Milorganite" (a treated sewage sludge) and diammonium phosphate, were analyzed in 1963. All samples were passed except two of bone meal and the diammonium phosphate sample; these three were deficient in nitrogen. Analyses are given in Table 4.

V. Materials Supplying Nitrogen and Potash

Two official samples of nitrate of potash and one of nitrate of soda-potash were analyzed; all three met their guaranties. Analyses are given in Table 3.

VI. Mixed Fertilizers

Commercial Mixtures

Analyses of 361 official samples of mixed fertilizers are given in Table 5. Results are summarized as follows:

Total number of samples		361
Samples deficient in:		
one item	94	
two items	16	110
Percentage of samples meeting all guaranties	70	
Total guaranties made. ¹		1,055

¹ Three hundred and thirty-three samples with three guaranties and twenty-eight with two guaranties (minor element guaranties not included).

Guaranties not met:		
nitrogen	49	
phosphoric acid	48	
potash	29	126
Percentage met		88

Eighty-eight per cent of all guaranties of major components were substantially met or exceeded.

Twenty-nine samples guaranteed between 0.6 and 2.4 per cent of magnesium (mostly 1.2 per cent) in addition to the major components; only one of these was low. Eight samples declared between 0.036 and 0.75 per cent of iron; and seven bore guaranties of 0.02 to 0.30 per cent of boron; none of these was below guaranty, but the actual iron contents were several times the guaranties in all cases. One sample guaranteeing 0.15 per cent of manganese was deficient in this element; another which guaranteed only 0.05 per cent met its guaranty. Single guaranties of calcium (1.0 per cent), copper (0.05 per cent), sulphur (1.0 per cent) and zinc (0.05 per cent) were made and met.

Special and Home Mixtures

Five samples of special and home mixtures were analyzed during the year. At one time hundreds of such samples were submitted annually to us by tobacco growers, but of late years the larger growers have mostly had their analyses made privately. Because the composition of the five 1963 samples is not of public interest their analyses are not tabulated in this bulletin.

State Purchases of Fertilizer

Fertilizer materials and mixed goods supplied to State institutions on State purchase orders are regularly included in our annual inspection. Fertilizers so supplied are not exempt from payment of registrations fees and tonnage taxes.

Official samples representing State purchases are indicated in the several tables (it should be noted that only official samples, and not those taken directly by the State Highway Department are included). They are summarized as follows:

<u>Materials</u>	<u>No. of samples</u>	<u>Reference</u>
Supplying nitrogen	4	Table 1
Supplying phosphoric acid	3	Table 2
Supplying potash	1	Table 3
Supplying nitrogen and phosphoric acid	2	Table 4
Mixed fertilizers	31	Table 5
Total	41	

VII. Miscellaneous

Sheep and cattle manures. Manures must bear guaranties of nitrogen, either total or "available" phosphoric acid, and potash.

Of the 19 official samples analyzed during the 1962-1963 season, 18 met all guaranties and one was deficient in potash. Analyses are given in Table 6.

Limestone and similar materials. Because the fertilizer law exempts "marl and lime" from its provisions, no regular inspection of liming materials is made. Occasional samples of limestone, hydrated lime and gypsum ("land plaster") are analyzed for farmers. Analyses of five such samples are given in Table 8.

Fertilizers sold in small packages. Fertilizers sold only in packages of 10 pounds or less net weight are not required to be registered. Nevertheless, as a service to home gardeners such brands of small package goods as come to the attention of our agent are sampled and analyzed. During the 1962-1963 season 81 such samples were analyzed. Sixty-nine of these, or 85 per cent, met all guaranties, and 94 per cent of the total of 235 guaranties were met. These are higher percentages than were found for agricultural fertilizers. Analyses are given in Table 7.

Other miscellaneous materials. Ten other miscellaneous products were examined; analyses are given in Table 8. This total includes two official samples of borax.

Check meals and fertilizers. Collaboration was continued with the various check analysis programs. Samples analyzed included: Sixteen vegetable meal samples received from the American Oil Chemists' Society; twelve check fertilizers supplied by the National Plant Food Institute; and two miscellaneous samples submitted in connection with methods studies.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
		F	G

NITRATE OF AMMONIA

9352	"Arcadian" Pelleted. Allied Chemical Corp. Nitrogen Div., Hopewell, Va. Sampled at The Hubbard-Hall Chemical Co., North Haven.	33.54	33.50
9123	AEROPRILLS. American Cyanamid Co., Princeton, N. J. State purchase, South- bury Training School, Southbury.	33.60	33.50
9147	AEROPRILLS. American Cyanamid Co., Princeton, N. J. State purchase, Conn. Reformatory, Cheshire.	<u>32.64</u>	33.50
9497	AEROPRILLS. American Cyanamid Co., Princeton, N. J. Sampled at Eastern States Farmers' Exchange, Inc., Putnam.	33.52	33.50

NITRATE OF SODA

9004 ¹	"Arcadian". Allied Chemical Corp., Nitrogen Div., Hopewell, Va. Sampled at Eastern States Farmers' Exchange, Inc., North Haven.	16.32	16.00
8897 ²	Chilean Champion Brand. Chilean Nitrate Sales Corp., New York 5, N. Y. Sampled at The Hartman Tobacco Co., Bloomfield.	16.00	16.00

SULPHATE OF AMMONIA

9380 ³	Granulated. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell.	20.48
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CYANAMID

9744	AERO Cyanamid Granular. American Cyanamid Co., Princeton, N. J. Sampled at New Haven Rendering Co., West Haven.	21.06	21.00
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~~~~~ Indicates deficiencies.

<sup>1</sup> Sodium: Guaranteed, 26.00%; found, 26.02%.

<sup>2</sup> Sodium: Guaranteed, 26.00%; found, 26.00%.

<sup>3</sup> Insoluble nitrogen: 0.12%.



TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No. | Manufacturer or jobber and dealer | Per cent<br>nitrogen |   |
|----------------|-----------------------------------|----------------------|---|
|                |                                   | F                    | G |

## UREA

|      |                                                                                                                                                                   |       |       |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| 9548 | "Arcadian" Urea 45 Fertilizer (Pelleted).<br>Allied Chemical Corp., Nitrogen Div.,<br>Hopewell, Va. Sampled at Old Fox<br>Agricultural Sales, Inc., Hazardville.  | 45.12 | 45.00 |
| 9478 | AERO Urea Coated Prills. American<br>Cyanamid Co., Agricultural Div., Prince-<br>ton, N. J. Sampled at Norwich Tallow<br>Co., Lisbon.                             | 45.60 | 45.00 |
| 9130 | AERO Urea Prilled Fertilizer. American<br>Cyanamid Co., Princeton, N. J. State<br>purchase, Fairfield State Hospital.<br>Newtown.                                 | 45.60 | 45.00 |
| 9547 | Cobelaz Urea 46%. H. J. Baker & Bro.,<br>Inc., New York 17, N. Y. Sampled at<br>Old Fox Agricultural Sales, Inc.,<br>Hazardville.                                 | 46.40 | 46.00 |
| 9355 | Du Pont Nu Green Urea Fertilizer 45-0-0.<br>E. I. du Pont de Nemours & Co., Wil-<br>mington 98, Del., Sampled at The Hub-<br>bard-Hall Chemical Co., North Haven. | 45.76 | 45.00 |
| 9772 | Grace Urea Prills 45%. W. R. Grace &<br>Co., Nitrogen Products Div., Memphis,<br>Tenn. Sampled at Checkerboard Feed<br>Store, New Milford.                        | 45.60 | 45.00 |
| 8906 | Urea 46% (South Africa). The Hubbard-<br>Hall Chemical Co., Waterbury. Sampled<br>at American Sumatra Tobacco Co.,<br>Bloomfield.                                 | 46.40 | 46.00 |

## CASTOR POMACE

|      |                                                                                                                          |      |       |
|------|--------------------------------------------------------------------------------------------------------------------------|------|-------|
| 9458 | Baker's Castor Pomace. Baker Castor<br>Oil Co., Bayonne, N. J. State purchase,<br>Conn. Valley Hospital, Middletown.     | 5.44 | ..... |
| 8905 | Baker's Castor Pomace. Baker Castor Oil<br>Co., Bayonne, N. J. Sampled at American<br>Sumatra Tobacco Corp., Bloomfield. | 5.72 | ..... |

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No. | Manufacturer or jobber and dealer | Per cent<br>nitrogen |   |
|----------------|-----------------------------------|----------------------|---|
|                |                                   | F                    | G |

|      |                                                                                                                    |      |      |
|------|--------------------------------------------------------------------------------------------------------------------|------|------|
| 8904 | Baker's Castor Pomace. Baker Castor Oil Co., Bayonne, N. J. Sampled at American Sumatra Tobacco Corp., Bloomfield. | 5.20 | .... |
|------|--------------------------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                           |      |      |
|------|-------------------------------------------------------------------------------------------|------|------|
| 9535 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell. | 5.84 | .... |
|------|-------------------------------------------------------------------------------------------|------|------|

## COTTONSEED MEAL

|      |                                                                                                                                            |      |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 8902 | Buckeye 41% Protein Solvent Extracted. Buckeye Cellulose Corp., Cincinnati 1, Ohio. Sampled at American Sumatra Tobacco Corp., Bloomfield. | 6.80 | 6.56 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                                                            |      |      |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 8903 | Buckeye 41% Protein Solvent Extracted. Buckeye Cellulose Corp., Cincinnati 1, Ohio. Sampled at American Sumatra Tobacco Corp., Bloomfield. | 6.64 | 6.56 |
|------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                |      |      |
|------|------------------------------------------------------------------------------------------------|------|------|
| 8871 | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane Corp., West Suffield. | 6.56 | 6.56 |
|------|------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                |      |      |
|------|------------------------------------------------------------------------------------------------|------|------|
| 8869 | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane Corp., West Suffield. | 6.56 | 6.56 |
|------|------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                |      |      |
|------|------------------------------------------------------------------------------------------------|------|------|
| 8868 | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane Corp., West Suffield. | 6.50 | 6.56 |
|------|------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                |      |      |
|------|------------------------------------------------------------------------------------------------|------|------|
| 8866 | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane Corp., West Suffield. | 6.64 | 6.56 |
|------|------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                |      |      |
|------|------------------------------------------------------------------------------------------------|------|------|
| 8865 | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane Corp., West Suffield. | 6.72 | 6.56 |
|------|------------------------------------------------------------------------------------------------|------|------|

|      |                                                                                                |      |      |
|------|------------------------------------------------------------------------------------------------|------|------|
| 8864 | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane Corp., West Suffield. | 6.64 | 6.56 |
|------|------------------------------------------------------------------------------------------------|------|------|

TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station No.       | Manufacturer or jobber and dealer                                                                                            | Per cent nitrogen |      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------|------|
|                   |                                                                                                                              | F                 | G    |
| 8863              | Cocke-Sure 41%. Cocke & Co., Atlanta 3, Ga. Sampled at Hatheway & Steane, Corp., West Suffield.                              | 6.64              | 6.56 |
| 9028              | Consolidated Rendering Co., Boston 10, Mass. Sampled at A. S. Labieniec, Kensington.                                         | 6.52              | 6.00 |
| 9430 <sup>4</sup> | F & B. Faesy & Besthoff, Inc., New York 10, N. Y. Sampled at Frank Pol-icastro & Sons, Inc., Glenbrook.                      | 6.00              | 6.00 |
| 8908              | Goldenrod 41% - Prime Quality. Golden-rod Oil Meal Sales Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.80              | 6.56 |
| 8911              | Goldenrod 41% - Prime Quality. Golden-rod Oil Meal Sales Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.64              | 6.56 |
| 8910              | Goldenrod 41% - Prime Quality. Golden-rod Oil Meal Sales Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.80              | 6.56 |
| 8909              | Goldenrod 41% - Prime Quality. Golden-rod Oil Meal Sales Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.72              | 6.56 |
| 8912              | Goldenrod 41% - Prime Quality. Golden-rod Oil Meal Sales Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield. | 6.60              | 6.56 |
| 9073              | Goulard & Olena, Inc., Skillman, N. J. Sampled at Renzulli Bros. Garden Center, Norwalk.                                     | 6.36              | .... |
| 9809              | The Hubbard-Hall Chemical Co., Water-bury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland.                         | 6.08              | .... |

<sup>4</sup> "Available" phosphoric acid: Guaranteed, 1.00%; found, 1.94%. Potash: Guaranteed, 1.00%; found, 1.76%.

TABLE 1.  
ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No. | Manufacturer or jobber and dealer                                                                                                                           | Per cent<br>nitrogen |      |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|
|                |                                                                                                                                                             | F                    | G    |
| 9554           | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Brookside Nurseries, Inc., Darien.                                                               | 6.96                 | .... |
| 8879           | "Lovit Brand" 41% - Prime Quality. John J. Pepin & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.                                    | 6.76                 | 6.56 |
| 8888           | "Lovit Brand" 41% - Prime Quality. John J. Pepin & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.                                      | 6.48                 | 6.56 |
| 8889           | "Lovit Brand" 41% - Prime Quality. John J. Pepin & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.                                      | 6.56                 | 6.56 |
| 8887           | "Lovit Brand" 41% - Prime Quality. John J. Pepin & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 3, Granby.                                      | 6.52                 | 6.56 |
| 8883           | "Lovit Brand" 41% - Prime Quality. John J. Pepin & Co., Memphis, Tenn. Sampled at Cullman Bros., Inc., Farm 1, Granby.                                      | 6.24                 | 6.56 |
| 9396           | Sco-Co Brand 41% - Prime Quality. Southern Cotton Oil Division, Hunt Foods & Industries, Inc., Rocky Mount, N. C. Sampled at McArdle's Seed Co., Greenwich. | 6.36                 | 4.64 |

#### LINSEED OIL MEAL

|      |                                                                                                                                                                              |      |      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| 8860 | Spencer Kellogg Old Process Expeller 31%. Spencer Kellogg & Sons, Inc., Division of Textron, Inc., Buffalo, N. Y. Sampled at Hatheway & Steane Corp., West Suffield.         | 5.64 | 4.96 |
| 8861 | Spencer Kellogg Old Process Expeller 31% Protein. Spencer Kellogg & Sons, Inc., Division of Textron, Inc., Buffalo, N. Y. Sampled at Hatheway & Steane Corp., West Suffield. | 5.48 | 4.96 |



TABLE 1.

## ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station<br>No. | Manufacturer or jobber and dealer                                                                                              | Per cent<br>nitrogen |       |
|----------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|
|                |                                                                                                                                | F                    | G     |
| 8882           | Sherwin-Williams 32%. The Sherwin-Williams Co., Cleveland, Ohio. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.             | 5.64                 | 5.30  |
| 8893           | Sherwin-Williams 32%. The Sherwin-Williams Co., Cleveland, Ohio. Sampled at Cullman Bros., Inc., Farm 3, Granby.               | 5.48                 | 5.30  |
| SOYBEAN MEAL   |                                                                                                                                |                      |       |
| 8881           | Forty Four 44% Solvent Extracted. Central Soya, Fort Wayne, Ind. Sampled at Cullman Bros., Inc., Farm 1, Simsbury.             | 7.20                 | 7.04  |
| 8894           | 44% Protein Solvent Extracted. Delphos Soya Products Co., Delphos, Ohio. Sampled at The Hartman Tobacco Co., Bloomfield.       | 7.62                 | 7.04  |
| MISCELLANEOUS  |                                                                                                                                |                      |       |
| 9310           | Agrinite Plant Food. The American Agricultural Chemical Co., North Weymouth 91, Mass. Sampled at De Carlis Express, Rockville. | 7.04                 | 7.00  |
| 9572           | Brookside's Dried Blood. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien.                | <u>10.72</u>         | 12.50 |
| 9571           | Brookside's Horn Shavings & Meal. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries, Inc., Darien.       | 14.72                | 14.00 |
| 9738           | Cascio's Organite. Peter Cascio Nursery, Inc., West Hartford, Conn. Sampled at Peter Cascio Nursery, Inc., West Hartford.      | 7.02                 | 7.00  |
| 9177           | Dried Blood. Consolidated Rendering Co., Boston, Mass. Sampled at New Haven Rendering Co., West Haven.                         | <u>10.72</u>         | 11.00 |

~~~~~ Indicates deficiencies.

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

| Station
No. | Manufacturer or jobber and dealer | Per cent
nitrogen | |
|----------------|--|----------------------|-------|
| | | F | G |
| 9813 | Du Pont Uramite Ureaform Fertilizer
38-0-0. E. I. du Pont de Nemours & Co.,
Wilmington 98, Del. Sampled at The
Hubbard-Hall Chemical Co., Portland. | 38.24 | 38.00 |
| 9385 | Nitroform. Hercules Powder Co., Wil-
mington 99, Del. Sampled at Old Fox
Agricultural Sales, Inc., Hazardville. | 39.68 | 38.00 |
| 9531 | Dried Blood. The Hubbard-Hall Chemi-
cal Co., Waterbury, Conn. Sampled at The
Hubbard-Hall Chemical Co., Portland. | 8.80 | |
| 9533 | Dried Blood. The Hubbard-Hall Chemi-
cal Co., Waterbury, Conn. Sampled at
A. N. Pierson, Inc., Cromwell. | 8.80 | |
| 9544 | Old Fox Organo. Old Fox Agricultural
Sales, Inc., East Providence, R. I.
Sampled at Old Fox Agricultural Sales,
Inc., Hazardville. | 5.08 | 5.00 |
| 9358 | New Pax Crabgrass & Soil Pest Control
4-0-0. Pax Company, Salt Lake City 10,
Utah. Sampled at Willis Distributors,
Bridgeport. | 4.68 | 4.00 |
| 9400 | Bonus Weed Control & Fertilizer. O. M.
Scott & Sons Co., Marysville, Ohio.
Sampled at McArdle's Seed Co., Green-
wich. | 25.92 | 25.00 |

TABLE 2.
ANALYSES OF SUPERPHOSPHATE, ETC.

| Station No. | Manufacturer or jobber and dealer | Per cent phosphoric acid | | | |
|----------------|--|--------------------------|-------|-------------|-------|
| | | Citrate insoluble | Total | "Available" | |
| | | | | F | G |
| SUPERPHOSPHATE | | | | | |
| 9209 | Agri-Phos. American Agricultural Chemical Co., New York, N. Y. State purchase, Conn. State Farm for Women, Niantic. | 0.23 | 20.80 | 20.57 | 20.00 |
| 9413 | Agri-Phos 20%. American Agricultural Chemical Co., New York, N. Y. Sampled at Leon Ezzel, Inc., Stamford. | 0.15 | 20.67 | 20.52 | 20.00 |
| 9542 | Agri-Phos 20%. American Agricultural Chemical Co., New York, N. Y. State purchase, Conn. State Prison, Osborn Div., Enfield. | 0.27 | 21.22 | 20.95 | 20.00 |
| 8895 | Trebo-Phos Triple 46%. American Cyanamid Co., New York, N. Y. Sampled at The Hartman Tobacco Co., Bloomfield. | 0.90 | 48.43 | 47.53 | 46.00 |
| 9750 | Corenco Triple. Consolidated Rendering Co., Boston 10, Mass. Sampled at New Haven Rendering Co., West Haven. | 1.07 | 44.20 | 43.13 | 46.00 |
| 9485 | Corenco 20%. Consolidated Rendering Co., Boston 10, Mass. State purchase, University of Conn., Farm Dept., Storrs. | 0.07 | 20.16 | 20.09 | 20.00 |

| | | | | | |
|----------------------|--|------|--------------------|-------|-------|
| 8917 | Eastern States Granulated 20%. Eastern States Farmers' Exchange, Inc., West Springfield, Mass. Sampled at Walter W. Simmons & Son, Inc., Granby. | 1.24 | 22.00 | 20.96 | 20.00 |
| 8886 | Davco Granulated Triple 46%. W. R. Grace & Co., Davison Chemical Div., Baltimore 26, Md. Sampled at Cullman Bros., Inc., Farm 1, Simsbury. | 1.63 | 48.50 | 46.87 | 46.00 |
| 8890 | Davco Granulated Triple 46%. W. R. Grace & Co., Davison Chemical Div., Baltimore 26, Md. Sampled at Cullman Bros., Inc., Farm 3, Granby. | 1.67 | 48.70 | 47.03 | 46.00 |
| 9773 | Davco Granulated 20%. W. R. Grace & Co., Davison Chemical Div., Baltimore 26, Md. Sampled at Checkboard Feed Store, New Milford. | 1.35 | 21.37 | 20.02 | 20.00 |
| 9536 | Liberty Fertilizer 20%. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc. Cromwell. | 0.97 | 24.37 | 23.40 | 20.00 |
| DI-CALCIUM PHOSPHATE | | | | | |
| 8862 | Eastman Gelatine Corp., Peabody, Mass. Sampled at Hatheway & Steane Corp., West Suffield. | | 41.99 ¹ | | |
| 8884 | Eastman Gelatine Corp., Peabody, Mass. Sampled at Cullman Bros., Inc., Farm 1, Simsbury. | | 44.80 ² | | |

~~~~ Indicates deficiencies.

<sup>1</sup> Guaranteed: 42.35%.

<sup>2</sup> Guaranteed: 42.35%.



TABLE 2.  
ANALYSES OF SUPERPHOSPHATE, ETC.

| Station No. | Manufacturer or jobber and dealer                                                                                               | Per cent phosphoric acid |                    |             |      |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-------------|------|
|             |                                                                                                                                 | Citrate insoluble        | Total              | "Available" |      |
|             |                                                                                                                                 |                          |                    | F           | G    |
| 9399        | AA Quality Ground Florida Pebble. American Agricultural Chemical Co., New York, N. Y. Sampled at McArdle's Seed Co., Greenwich. | 26.25                    | 30.69 <sup>3</sup> | 4.44        | 3.00 |
| 9235        | Ruhm's Finely Ground. Ruhm Phosphate & Chemical Co., Columbia, Tenn. Sampled at Holdridge Farm Nursery, Ledyard.                |                          | 30.38 <sup>4</sup> |             |      |

<sup>3</sup> Guaranteed: 31.00%.  
<sup>4</sup> Guaranteed: 30.00%.

TABLE 3.  
ANALYSES OF POTASH SALTS, ETC.

| Station<br>No.         | Manufacturer or jobber and dealer                                                                                                                      | Per cent<br>potash |       |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|
|                        |                                                                                                                                                        | F                  | G     |
| MURIATE OF POTASH      |                                                                                                                                                        |                    |       |
| 9165                   | Corenco 60%. Consolidated Rendering Co., Boston 10, Mass. Sampled at New Haven Rendering Co., West Haven.                                              | 60.00              | 60.00 |
| 9541                   | Corenco 60%. Consolidated Rendering Co., Boston 10, Mass. State purchase, Conn. State Prison, Osborn Div., Enfield.                                    | <u>58.00</u>       | 60.00 |
| 8907                   | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at American Sumatra Tobacco Corp., Bloomfield.                                                 | 60.60              | 60.00 |
| 8927                   | IMC. International Minerals & Chemical Corp., Woburn, Mass. Sampled at Eastern States Farmers' Exchange, Inc., Buckland.                               | 60.04              | 60.00 |
| NITRATE OF POTASH      |                                                                                                                                                        |                    |       |
| 9383 <sup>1</sup>      | Irsobin Fertilizer (Made in W. Germany). International Minerals & Chemical Corp., Woburn, Mass. Sampled at A. N. Pierson, Inc., Cromwell.              | 45.96              | ..... |
| 8880 <sup>2</sup>      | B. B. Potassium Nitrate - Fertilizer Grade. (Made in France). Walter W. Simmons & Son, Inc., Granby. Sampled at Cullman Bros., Inc., Farm 1, Simsbury. | 46.00              | ..... |
| NITRATE OF SODA-POTASH |                                                                                                                                                        |                    |       |
| 9622 <sup>3</sup>      | Chilean. Chilean Nitrate Sales Corp., New York 5, N. Y. Sampled at The Hubbard-Hall Chemical Co., Windsorville.                                        | 14.05              | 14.00 |

~~~~ Indicates deficiencies.

¹ Nitrogen: Found, 13.60%.

² Nitrogen: Found, 13.76%.

³ Nitrogen: Guaranteed, 15.00%; found, 15.12%.

Chlorine: Found, 0.31%.

Sodium: Guaranteed, 18.00%; found, 18.07%.

TABLE 3.
ANALYSES OF POTASH SALTS, ETC.

| Station
No. | Manufacturer or jobber and dealer | Per cent
potash | |
|----------------|-----------------------------------|--------------------|---|
| | | F | G |

SULPHATE OF POTASH

| | | | |
|------|---|--------------|-------|
| 9381 | Liberty Fertilizer. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A. N. Pierson, Inc., Cromwell. | <u>47.56</u> | 48.00 |
|------|---|--------------|-------|

COTTON HULL ASHES

| | | | |
|------|--|--------------|---------------|
| 8870 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield. | 32.00 | unit
basis |
| 8876 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield. | 32.62 | unit
basis |
| 8891 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros., Inc., Farm 3, Granby. | 33.54 | unit
basis |
| 8898 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield. | 33.84 | unit
basis |
| 9553 | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Brookside Nurseries, Inc., Darien. | <u>31.48</u> | 36.00 |

MISCELLANEOUS

| | | | |
|------|--|-------|-------|
| 9812 | Peter's Fritted Potash. Robert B. Peters Co., Inc., Allentown, Pa. Sampled at The Hubbard-Hall Chemical Co., Portland. | 20.46 | 15.00 |
|------|--|-------|-------|


 Indicates deficiencies.



TABLE 4.
ANALYSES OF GROUND FISH, BONE, ETC.

| Station No. | Manufacturer or jobber and dealer | Per cent nitrogen | | Per cent phosphoric acid | | Mechanical analysis (per cent) | |
|----------------|--|-------------------|------------------|--------------------------|------------------|--------------------------------|------------------------|
| | | Total found | Total guaranteed | Total found | Total guaranteed | Finer than 1/50 inch | Coarser than 1/50 inch |
| DRY GOUND FISH | | | | | | | |
| 8867 | The Hubbard-Hall Chemical Co., Waterbury, Conn.
Sampled at Hatheway & Steane Corp., West Suffield. | 10.80 | 10.00 | 6.72 | 5.00 | | |
| 8896 | The Hubbard-Hall Chemical Co., Waterbury, Conn.
Sampled at The Hartman Tobacco Co., Bloomfield. | 10.62 | 10.00 | 6.59 | 5.00 | | |
| 8877 | Fish Meal 60% Protein. Wilbur-Ellis Co., New York,
N. Y. Sampled at Cullman Bros., Inc., Farm 1,
Simsbury. | 10.16 | 9.60 | | | | |
| 8885 | Fish Meal 60% Protein. Wilbur-Ellis Co., New York,
N. Y. Sampled at Cullman Bros., Inc., Farm 1,
Simsbury. | 10.32 | 9.60 | | | | |
| 8892 | Fish Meal 60% Protein. Wilbur-Ellis Co., New York,
N. Y. Sampled at Cullman Bros., Inc., Farm 3,
Granby. | 10.20 | 9.60 | | | | |

BONE MEAL

[illegible]

~~~~~ Indicates deficiencies.

TABLE 4.  
ANALYSES OF GROUND FISH, BONE, ETC.

| Station No. | Manufacturer or jobber and dealer                                                                       | Per cent nitrogen |                  | Per cent phosphoric acid |                  | Mechanical analysis (per cent) |                        |
|-------------|---------------------------------------------------------------------------------------------------------|-------------------|------------------|--------------------------|------------------|--------------------------------|------------------------|
|             |                                                                                                         | Total found       | Total guaranteed | Total found              | Total guaranteed | Finer than 1/50 inch           | Coarser than 1/50 inch |
|             |                                                                                                         |                   |                  |                          |                  |                                |                        |
| 9463        | A. H. Hoffman, Inc., Landisville, Pa. Sampled at G.E.M., Inc., Newington.                               | 2.28              | 2.00             | 27.24                    | 17.00            | 73.00                          | 27.00                  |
| 8988        | The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Sears, Roebuck & Co., Hamden.                | 2.68              | 2.00             | 26.50 <sup>1</sup>       |                  | 74.00                          | 26.00                  |
| 9799        | Old Fox Agricultural Sales, Inc., East Providence, R. I. Sampled at W. T. Grant Co., Willimantic.       | 2.20              | 2.00             | 26.26                    | 23.00            | 65.00                          | 35.00                  |
| 9734        | Sears, Roebuck & Co., Chicago 7, Ill. Sampled at Sears, Roebuck & Co., West Hartford.                   | 2.56              | 2.00             | 26.42 <sup>2</sup>       | 23.00            | 68.00                          | 32.00                  |
| 9818        | Swift & Co., Agrichem Div., New Haven 5, Conn. Sampled at East Hartford Warehouse, Inc., East Hartford. | 2.72              | 2.47             | 25.98                    | 23.00            | 67.00                          | 33.00                  |
| 8926        | Wessel, Duval & Co., Inc., New York, N. Y. Sampled at Eastern States Farmers' Exchange, Inc., Buckland. | 2.24              | 2.47             | 28.60                    | 23.00            | 64.00                          | 36.00                  |

## DIAMMONIUM PHOSPHATE

9521 The Hubbard-Hall Chemical Co., Waterbury, Conn.  
 Sampled at The Hubbard-Hall Chemical Co., Portland. 17.40 18.00 46.64<sup>3</sup>

## MILORGANITE

9447 Sewerage Commission of the City of Milwaukee, Milwaukee 1, Wis. Sampled at Comstock-Ferre & Co., Wethersfield.  
 5.76 5.50 4.09<sup>4</sup> 3.50

~~~~ Indicates deficiencies.

- ¹ "Available" phosphoric acid: Guaranteed, 23.00%; found, 18.70%.
- ² "Available" phosphoric acid: Guaranteed, 16.00%; found, 17.97%.
- ³ "Available" phosphoric acid: Guaranteed, 46.00%; found, 46.28%.
- ⁴ "Available" phosphoric acid: Guaranteed, 3.00%; found, 3.57%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|---|--|-------------------|
| <u>A-PENN OIL CO., Butler, Pa.</u> | | |
| 8965 | Marvel Green Lawn Builder Lawn Food 20-10-5 | Bridgeport |
| <u>AGRICULTURAL PRODUCTS CO., INC., Providence, R. I.</u> | | |
| 9157 | Blue Ribbon Lawn & Garden Fertilizer 5-10-5 | New Britain |
| 9153 | Golden Comet Lawn Food 10-6-4 | New Britain |
| 9801 | Guardian 8-6-4 Gro-Green Lawn Fertilizer | Willimantic |
| 9475 | Spur Lawn & Garden Fertilizer 5-10-5 | Norwich |
| 9104 | Super Turf King Lawn Food 10-6-4 | New Haven |
| 9476 | Super Spur Lawn Food 10-6-4 | Norwich |
| 9103 | Turf King Lawn & Garden Fertilizer 5-10-5 | New Haven |
| <u>AGRICULTURAL SUPPLY CO., West Haven, Conn.</u> | | |
| 9628 | Yale Special Mixture Landscape Fertilizer 8-6-2 | Fairfield |
| <u>THE AMERICAN AGRICULTURAL CHEMICAL CO. North Weymouth, Mass.</u> | | |
| 9126 ^{1, 2} | AA Quality Fertilizer 0-15-30 | Southbury |
| 9717 | AA Plant Food 5-10-5 | Southington |
| 9163 ¹ | AA Plant Food 5-10-5 | Hartford |
| 9120 ¹ | AA Plant Food 10-6-4 | Middletown |
| 9146 ¹ | AA Plant Food 10-6-4 | Cheshire |
| 9178 ¹ | AA Plant Food 10-6-4 | Hamden |
| 9210 ¹ | AA Quality Fertilizer 0-20-20 with 20 lbs. Borax per ton | Niantic |
| 9647 | AA Quality Fertilizer 5-8-7 | Southington |
| 9470 ^{1, 3} | AA Quality Fertilizer 5-10-10 | Norwich |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total |
| 0.40                  | 5.76       | 11.68                     | 2.16                | 20.00 | 0.19                         | 9.20  | 9.01                     | ....                | 5.13  |
| 0.00                  | 1.52       | 4.32                      | 0.36                | 6.20  | 0.07                         | 10.04 | 9.97                     | 4.77                | 5.41  |
| 0.00                  | 11.12      | 0.16                      | 0.36                | 11.64 | 0.20                         | 6.25  | 6.05                     | 3.07                | 4.68  |
| 0.10                  | 7.68       | 0.96                      | 0.54                | 9.28  | 0.50                         | 6.64  | 6.14                     | 3.89                | 4.22  |
| 0.00                  | 5.44       | 0.14                      | 0.50                | 6.08  | 0.63                         | 10.90 | 10.27                    | 5.45                | 6.14  |
| 0.00                  | 10.88      | 0.08                      | 0.38                | 11.34 | 0.04                         | 6.53  | 6.49                     | 4.26                | 5.10  |
| 0.00                  | 10.64      | 0.56                      | 0.40                | 11.60 | 0.12                         | 6.20  | 6.08                     | 4.10                | 4.62  |
| 0.00                  | 5.92       | 0.00                      | 0.42                | 6.34  | 0.11                         | 10.21 | 10.10                    | 5.18                | 6.36  |
| 0.00                  | 4.48       | 3.28                      | 2.10                | 9.86  | 0.39                         | 6.65  | 6.26                     | 2.91                | 3.77  |
| ....                  | ....       | ....                      | ....                | ....  | 0.32                         | 15.65 | 15.33                    | 26.00               | 29.58 |
| 1.22                  | 3.76       | 0.00                      | 0.18                | 5.16  | 0.29                         | 10.43 | 10.14                    | 5.17                | 5.89  |
| 1.16                  | 3.76       | 0.00                      | 0.08                | 5.00  | 0.35                         | 10.40 | 10.05                    | 4.82                | 5.10  |
| 2.00                  | 7.92       | 0.08                      | 0.00                | 10.00 | 0.33                         | 6.67  | 6.34                     | 3.28                | 4.36  |
| 0.12                  | 3.12       | 5.76                      | 1.24                | 10.24 | 0.33                         | 6.61  | 6.28                     | 4.22                | 4.27  |
| 0.00                  | 3.12       | 5.86                      | 1.18                | 10.16 | 0.38                         | 6.43  | 6.05                     | 3.97                | 5.22  |
| ....                  | ....       | ....                      | ....                | ....  | 0.39                         | 20.50 | 20.11                    | 19.61               | 20.33 |
| 0.92                  | 3.92       | 0.00                      | 0.16                | 5.00  | 0.33                         | 8.39  | 8.06                     | 5.77                | 7.07  |
| 0.96                  | 4.16       | 0.16                      | 0.00                | 5.28  | 0.27                         | 10.20 | 9.93                     | 9.23                | 9.76  |

<sup>2</sup> Boron: Guaranteed, 0.10%; found, 0.24%.

<sup>3</sup> Magnesium: Guaranteed, 1.20%; found, 1.52%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                        | Manufacturer and brand                                    | Place of Sampling |
|--------------------------------------------------------------------|-----------------------------------------------------------|-------------------|
| 9798 <sup>4</sup>                                                  | AA Quality Fertilizer 5-10-10 1.2 mag.                    | Willimantic       |
| 9136 <sup>1,5</sup>                                                | AA Quality Fertilizer 5-10-10 1.2 mag.                    | Danbury           |
| 9784                                                               | AA Quality Fertilizer 7-7-7                               | New Milford       |
| 8969 <sup>1</sup>                                                  | AA Quality Fertilizer 10-10-10                            | Cheshire          |
| 9127 <sup>1</sup>                                                  | AA Quality Fertilizer 10-10-10                            | Newtown           |
| 9121 <sup>1,6</sup>                                                | AA Quality Fertilizer 10-10-10                            | Middletown        |
| 9312                                                               | Agrico A. C. R. Fertilizer 6-10-4                         | Rockville         |
| 9311                                                               | Agrico Country Club 8-6-4-25% Org. N.                     | Rockville         |
| 9309                                                               | Agrico Country Club 10-6-4-25% Org. N.                    | Rockville         |
| 9107                                                               | Agrico for Lawns, Trees & Shrubs 6-10-4                   | North Haven       |
| 9364                                                               | Agrico for Gardens 5-10-5                                 | Bridgeport        |
| 9648 <sup>7</sup>                                                  | Agrico for Potatoes 5-10-10                               | Southington       |
| 9406                                                               | Agrico for Top Dressing 12-12-12                          | Cos-Cob           |
| 9365                                                               | Agrico Grass Food 10-6-4                                  | Bridgeport        |
| 9425                                                               | Agrico Insect Control with Fertilizer 5-9-6               | Darien            |
| 9405                                                               | Agrico Rose Food 5-9-6                                    | Cos Cob           |
| 9412                                                               | Agrico Weed Control with Fertilizer 5-9-6                 | Stamford          |
| 8966                                                               | Homestead Farm Style Fertilizer<br>5-10-5                 | Bridgeport        |
| 9005                                                               | Homestead Farm Style Multi-Purpose<br>Fertilizer 10-6-4   | Stratford         |
| <u>ARMOUR AGRICULTURAL CHEMICAL</u><br><u>CO., Carteret, N. J.</u> |                                                           |                   |
| 9052                                                               | Armour Armorganic Plant Food 5-5-0                        | Southington       |
| 9143                                                               | Armour Lightweight Vertagreen Lawn<br>Fertilizer 20-10-10 | Brookfield        |
| 9011                                                               | Armour Vertagreen for Acid Loving<br>Plants 5-10-10       | Milford           |
| 8977                                                               | Armour Vertagreen for Lawns &<br>Gardens 5-10-5           | Hamden            |
| 9145                                                               | Armour Vertagreen Rose Food 5-10-5                        | Brookfield        |

~~~~~ Indicates deficiencies.

¹ State purchase.

⁴ Magnesium: Guaranteed, 1.20%; found, 1.70%.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 1.36 | 3.84 | 0.00 | 0.00 | 5.20 | 0.29 | 10.40 | 10.11 | 9.16 | 10.13 |
| 0.00 | 3.84 | 0.96 | 0.24 | 5.04 | 0.16 | 10.54 | 10.38 | 9.35 | 10.04 |
| 1.16 | 4.48 | 1.36 | 0.00 | 7.00 | 0.31 | 7.35 | 7.04 | 5.85 | 7.31 |
| 2.02 | 8.16 | 0.08 | 0.06 | 10.32 | 0.31 | 10.50 | 10.19 | 8.27 | 10.44 |
| 1.64 | 7.12 | 0.32 | 1.28 | 10.36 | 0.33 | 10.39 | 10.06 | 7.78 | 10.08 |
| 2.00 | 7.84 | 0.16 | 0.00 | 10.00 | 0.33 | 10.40 | 10.07 | 9.37 | 10.12 |
| 0.00 | 5.92 | 0.00 | 0.08 | 6.00 | 0.22 | 10.30 | 10.08 | 2.67 | 4.20 |
| 0.26 | 6.56 | 0.80 | 0.90 | 8.52 | 0.40 | 7.70 | 7.30 | 4.83 | 4.83 |
| 0.00 | 7.36 | 2.18 | 0.46 | 10.00 | 0.25 | 6.42 | 6.17 | 3.03 | 4.16 |
| 0.68 | 4.16 | 1.12 | 0.84 | 6.80 | 0.00 | 10.78 | 10.78 | 3.07 | 4.43 |
| 0.00 | 3.84 | 0.80 | 0.56 | 5.20 | 0.21 | 10.50 | 10.29 | 4.15 | 5.05 |
| 0.36 | 4.32 | 0.24 | 0.12 | 5.04 | 0.23 | 10.28 | 10.05 | 8.96 | 10.16 |
| 0.00 | 8.56 | 3.44 | 0.12 | 12.12 | 0.32 | 13.00 | 12.68 | 12.01 | 12.01 |
| 0.00 | 3.84 | 2.88 | 4.16 | 10.88 | 0.17 | 6.40 | 6.23 | 3.95 | 4.35 |
| 0.16 | 2.72 | 2.08 | 0.72 | 5.68 | 0.24 | 9.40 | 9.16 | 5.93 | 7.01 |
| 0.00 | 2.96 | 2.40 | 0.60 | 5.96 | 0.29 | 9.51 | 9.22 | 3.50 | 6.53 |
| 0.00 | 2.96 | 1.76 | 0.64 | 5.36 | 0.45 | 9.20 | <u>8.75</u> | 5.26 | 6.19 |
| 1.48 | 3.76 | 0.08 | 0.08 | 5.40 | 0.29 | 10.50 | 10.21 | 3.89 | 5.22 |
| 0.00 | 8.24 | 2.64 | 0.08 | 10.96 | 0.18 | 6.03 | 5.85 | 2.67 | 4.08 |
| 0.00 | 0.00 | 0.42 | 4.82 | 5.24 | 1.05 | 7.48 | 6.43 | .... | .... |
| 0.00 | 3.84 | 10.24 | 7.16 | 21.24 | 0.30 | 9.60 | <u>9.30</u> | 8.04 | 10.04 |
| 0.36 | 0.88 | 2.88 | 1.00 | 5.12 | 0.57 | 11.34 | 10.77 | 10.19 | 10.19 |
| 0.00 | 4.80 | 0.42 | 0.12 | 5.34 | 0.59 | 11.32 | 10.73 | 1.99 | 5.22 |
| 0.28 | 4.00 | 0.08 | 1.12 | 5.48 | 0.51 | 10.57 | 10.06 | 5.87 | 5.87 |

⁵ Magnesium: Guaranteed: 1.20%; found, 0.93%.

⁶ Boron: Guaranteed: 0.057%; found, 0.066%.

⁷ Magnesium: Guaranteed: 1.20%; found, 2.09%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|---|---|-------------------|
| 9138 | Armour Vertagreen for Turf & Trees
10-6-4 | Brookfield |
| 8976 | Armour Vertagreen Turf Food with
Chlordane 5-10-5 | Hamden |
| <u>ASGROW SEED CO., New Haven, Conn.</u> | | |
| 9641 | Asgrow Gro-Sod Lawn Food 22-8-4 | Milford |
| 9642 | Asgrow Weed-Nix Lawn Food 17-4-4
with 2, 4-D | Milford |
| 8990 | Asgrow Gro-Sod Lawn Food 22-8-4 | Hamden |
| 9644 | Breck's Greenite 5-4-0 | Milford |
| 9645 | Breck's Feed No Weed 17-4-4 | Milford |
| 9640 | Breck's Turf-Gro Lawn Food 22-8-4 | Milford |
| <u>ATLANTIC SEED CO.,
Martinsville, N. J.</u> | | |
| 8974 | Atlantic's Lightweight Fertilizer for
Turf 20-10-5 | Hamden |
| 8975 | Atlantic's Weed & Feed 20-10-5 | Hamden |
| <u>F. A. BARTLETT TREE EXPERT CO.
Stamford, Conn.</u> | | |
| 9766 | Bartlett Green Tree Food 6-8-6 | Danbury |
| <u>BONIDE CHEMICAL CO., Utica, N. Y.</u> | | |
| 9304 | Vittners Lawn Weed & Feed 17-4-4 | Manchester |
| <u>BROOKSIDE NURSERIES, INC.,
Darien, Conn.</u> | | |
| 9570 | Brookside's Natures Evergreen 5-4-4 | Darien |
| 9567 | Brookside's Natures Nutrients 6-6-8 | Darien |
| 9568 | Brookside's Natures Thrift Food 4-4-4 | Darien |
| <u>W. ATLEE BURPEE CO.,
Philadelphia 32, Pa.</u> | | |
| 8972 | Burpee Lawn Food 20-10-5 | Cheshire |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |             | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |             |
|-----------------------|------------|---------------------------|---------------------|-------------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total       | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total       |
| 0.42                  | 7.52       | 0.08                      | 1.58                | <u>9.60</u> | 0.61                         | 7.30  | 6.69                     | 3.98                | 4.33        |
| 0.42                  | 7.84       | 0.32                      | 1.66                | 10.24       | 0.45                         | 6.71  | 6.26                     | 3.96                | 4.59        |
| 0.80                  | 5.92       | 12.80                     | 2.48                | 22.00       | 0.35                         | 6.42  | <u>6.07</u>              | 0.12                | <u>3.68</u> |
| 0.00                  | 5.28       | 9.92                      | 2.40                | 17.60       | 0.35                         | 6.33  | 5.98                     | 0.49                | 4.65        |
| 0.92                  | 8.16       | 10.56                     | 2.44                | 22.08       | 0.22                         | 9.88  | 9.66                     | ....                | 4.39        |
| 0.00                  | 0.16       | 0.12                      | 5.20                | 5.48        | 0.91                         | 6.69  | 5.78                     | ....                | ....        |
| 0.00                  | 4.80       | 10.12                     | 2.20                | 17.12       | 0.52                         | 5.27  | 4.75                     | 0.42                | 4.08        |
| 0.12                  | 6.72       | 12.48                     | 2.92                | 22.24       | 0.37                         | 9.36  | 8.99                     | ....                | <u>3.62</u> |
| 0.00                  | 3.04       | 18.24                     | 0.16                | 21.44       | 0.17                         | 8.90  | <u>8.73</u>              | 4.01                | 6.85        |
| 0.20                  | 3.04       | 17.92                     | 0.28                | 21.44       | 0.23                         | 9.50  | <u>9.27</u>              | 3.60                | 6.43        |
| 0.24                  | 5.04       | 0.32                      | 0.88                | 6.48        | 0.30                         | 8.00  | <u>7.70</u>              | 6.01                | 6.93        |
| 1.80                  | 1.44       | 16.16                     | 0.12                | 19.52       | 0.19                         | 5.10  | 4.91                     | 2.67                | 4.90        |
| 0.00                  | 0.00       | 0.56                      | 4.56                | 5.12        | 3.44                         | 10.80 | 7.36                     | 0.47                | 5.24        |
| 0.00                  | 0.00       | 0.48                      | 5.38                | <u>5.86</u> | 0.61                         | 8.03  | 7.42                     | 0.81                | 8.18        |
| 0.00                  | 0.16       | 0.02                      | 3.94                | 4.12        | 0.28                         | 6.15  | 5.87                     | 0.41                | 4.07        |
| 0.44                  | 6.40       | 9.44                      | 4.52                | 20.80       | 0.40                         | 11.38 | 10.98                    | 5.02                | 5.94        |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                   | Manufacturer and brand                           | Place of Sampling |
|---------------------------------------------------------------|--------------------------------------------------|-------------------|
| <u>CADWELL &amp; JONES, INC.,</u><br>Hartford, Conn.          |                                                  |                   |
| 9795                                                          | C & J Hi-Organic Fertilizer 10-6-4               | Hartford          |
| 9719                                                          | C & J 7500 Lawn Food 15-10-10                    | W. Hartford       |
| 9720                                                          | C & J Lawn Food with Weed Killer<br>20-10-5      | W. Hartford       |
| 9051                                                          | C & J Plant Food 5-10-5                          | Hartford          |
| <u>CALIFORNIA CHEMICAL CO.,</u><br>Ortho Div., Richmond, Cal. |                                                  |                   |
| 9021                                                          | Ortho Liquid Evergreen & Azalea<br>Food 10-8-7   | Milford           |
| 9059                                                          | Ortho-Gro Liquid Plant Food 15-5-5               | Plainville        |
| 9737                                                          | Ortho Unipel Fertilizer 10-20-20                 | W. Hartford       |
| <u>PETER CASCIO NURSERY, INC.,</u><br>West Hartford, Conn.    |                                                  |                   |
| 9742                                                          | Cascio's High Organic 10-6-4 Lawn<br>Food        | W. Hartford       |
| 9739                                                          | Cascio Professional 5-10-5 Lawn Food             | W. Hartford       |
| <u>CONSOLIDATED RENDERING CO.,</u><br>Boston, Mass.           |                                                  |                   |
| 9507                                                          | Corenco 0-15-30 Fertilizer                       | Shelton           |
| 9148 <sup>1, 8</sup>                                          | Corenco Fertilizer 0-15-30                       | Cheshire          |
| 9745                                                          | Corenco 0-20-20 Fertilizer                       | West Haven        |
| 9445                                                          | Corenco 5-8-7 Fertilizer                         | Wethersfield      |
| 8962                                                          | Corenco 5-10-5 Fertilizer                        | Derby             |
| 9482                                                          | Corenco 5-10-10 Fertilizer                       | Lisbon            |
| 9756                                                          | Corenco 5-10-10 Liquid Fertilizer<br>Concentrate | West Haven        |
| 9537 <sup>9</sup>                                             | Corenco Fertilizer 5-10-10 1.2 mag.              | East Windsor      |

~~~~~ Indicates deficiencies.

¹ State purchase.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|--------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.28 | 2.72 | 4.96 | 1.40 | <u>9.36</u> | 0.42 | 6.42 | 6.00 | 3.38 | 4.54 |
| 2.54 | 10.72 | 0.48 | 0.34 | <u>14.08</u> | 0.17 | 10.23 | 10.06 | 8.30 | <u>9.26</u> |
| 0.96 | 3.36 | 12.16 | 3.84 | 20.32 | 0.77 | 11.82 | 11.05 | 4.18 | 5.33 |
| 1.20 | 3.36 | 0.32 | 0.12 | 5.00 | 0.29 | 9.70 | <u>9.41</u> | 5.07 | 5.54 |
| 0.16 | 0.40 | 10.32 | 0.00 | 10.88 | 0.00 | 8.05 | 8.05 | .... | 7.50 |
| 0.80 | 0.48 | 14.72 | 0.00 | 16.00 | 0.00 | 5.15 | 5.15 | .... | 6.27 |
| 4.04 | 5.60 | 0.24 | 0.12 | 10.00 | 0.27 | 20.33 | 20.06 | 19.44 | 20.10 |
| 0.00 | 4.64 | 4.64 | 1.56 | 10.84 | 0.42 | 6.44 | 6.02 | 3.62 | 4.59 |
| 0.00 | 3.44 | 1.72 | 0.12 | 5.28 | 0.40 | 10.37 | 9.97 | 3.74 | 5.41 |
| .... | .... | .... | .... | .... | 0.25 | 15.10 | 14.85 | 22.29 | <u>28.14</u> |
| .... | .... | .... | .... | .... | 0.33 | 14.00 | <u>13.67</u> | 24.39 | <u>28.10</u> |
| .... | .... | .... | .... | .... | 0.39 | 20.70 | <u>20.31</u> | 20.03 | <u>20.26</u> |
| 1.24 | 4.24 | 0.08 | 0.16 | 5.72 | 0.09 | 9.54 | 9.45 | 7.02 | 7.36 |
| 1.02 | 4.32 | 0.08 | 0.10 | 5.52 | 0.11 | 11.48 | 11.37 | 4.46 | 7.10 |
| 1.20 | 3.44 | 0.16 | 0.20 | 5.00 | 0.09 | 9.70 | <u>9.61</u> | 10.82 | 10.82 |
| 0.64 | 4.16 | 0.40 | 0.00 | 5.20 | 0.00 | 10.60 | 10.60 | 10.55 | 10.55 |
| 0.76 | 4.88 | 0.32 | 0.24 | 6.20 | 0.09 | 9.70 | <u>9.61</u> | 5.95 | <u>9.15</u> |

⁸ Boron: Guaranteed, 0.10%; found, 0.092%.

⁹ Magnesium: Guaranteed, 1.20%; found, 1.58%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|--------------------|---|-------------------|
| 9538 ¹⁰ | Corenco Fertilizer 6-8-8 1.2 mag. | East Windsor |
| 9477 | Corenco 7-7-7 Fertilizer | Lisbon |
| 9752 ¹¹ | Corenco 8-12-12 0.9 mag. Fertilizer | West Haven |
| 9539 | Corenco Fertilizer 8-16-16 | East Windsor |
| 9124 ¹ | Corenco Fertilizer 8-16-16 | Southbury |
| 9129 ¹ | Corenco Fertilizer 8-16-16 | Newtown |
| 9167 | Corenco 10-10-10 Fertilizer | West Haven |
| 9508 | Corenco 15-10-10 Fertilizer | Shelton |
| 9443 | Corenco Golf & Lawn Special 10-6-4 | Wethersfield |
| 9468 ¹ | Corenco Golf & Lawn Special 10-6-4 | New Haven |
| 8961 | Corenco Golf & Lawn Special 10-6-4 | Derby |
| 9149 ¹ | Corenco Golf & Lawn Special (Special Mixture) 10-6-4 | Meriden |
| 9175 | Corenco Golf & Lawn Special with Crabgrass Control 10-6-4 | West Haven |
| 9202 | Corenco Home Garden Fertilizer 5-10-5 | Centerbrook |
| 9578 | Corenco Landscape 8-6-2 (40% Organic Nitrogen) | West Suffield |
| 9753 | Corenco Landscape Fertilizer 8-6-4 | West Haven |
| 9755 | Corenco Liquid Green 10-5-5 | West Haven |
| 9236 | Corenco Organic Turf Fertilizer 5-5-0 | Ledyard |
| 9751 | Corenco 10-5-5 Organo | West Haven |
| 9757 | Corenco 6-3-6 Perfection Tobacco Grower | Springfield |
| 9169 | Corenco Pro-Grass Turf Food 10-6-4 (75% Organic Nitrogen) | West Haven |
| 9176 | Corenco Rhododendron, Azalea & Blueberry Special 7-7-7 | West Haven |
| 9444 | Corenco Rose Special Fertilizer 5-10-5 | Wethersfield |
| 9592 | Corenco Spurzon 3-2.5-1.5 | Thompsonville |
| 9133 | Corenco Timberline Complete Tree Food 10-8-2 | Newtown |
| 9132 | Corenco Turf Green 8-6-4 | Newtown |
| 9743 | Corenco Turf Green 8-6-4 w/Chlordane | West Haven |
| 9754 | Corenco Weed-B-Done 18-3-5 plus 2, 4-D, 2, 4, 5-T | West Haven |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |              |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|--------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total        |
| 1.44                  | 4.56       | 0.00                      | 0.00                | 6.00         | 0.09                         | 8.26  | 8.17                     | 5.24                | 8.62         |
| 1.08                  | 5.20       | 0.16                      | 0.16                | <u>6.60</u>  | 0.09                         | 6.90  | 6.81                     | 8.55                | 9.10         |
| 1.68                  | 6.32       | 0.00                      | 0.00                | 8.00         | 0.16                         | 12.20 | 12.04                    | 9.04                | 12.00        |
| 1.26                  | 5.04       | 0.48                      | 0.10                | <u>6.88</u>  | 0.39                         | 16.90 | 16.51                    | 12.07               | 16.40        |
| 1.42                  | 6.96       | 0.08                      | 0.10                | 8.56         | 0.49                         | 18.64 | 18.15                    | 13.96               | <u>14.28</u> |
| 1.44                  | 6.48       | 0.08                      | 0.28                | 8.28         | 0.50                         | 17.12 | 16.62                    | 13.21               | <u>16.02</u> |
| 1.70                  | 7.52       | 0.08                      | 0.30                | <u>9.60</u>  | 0.16                         | 10.68 | 10.52                    | 10.16               | 10.17        |
| 2.56                  | 11.28      | 0.40                      | 0.00                | <u>14.24</u> | 0.10                         | 10.01 | 9.91                     | 8.27                | 10.05        |
| 0.24                  | 4.64       | 4.00                      | 1.12                | <u>10.00</u> | 0.24                         | 6.92  | 6.68                     | 4.34                | 4.39         |
| 0.00                  | 5.04       | 3.76                      | 1.40                | 10.20        | 0.29                         | 7.09  | 6.80                     | 4.02                | 4.02         |
| 0.00                  | 5.12       | 4.32                      | 1.18                | 10.62        | 0.28                         | 7.23  | 6.95                     | 4.45                | 4.49         |
| 0.18                  | 5.04       | 2.56                      | 1.74                | <u>9.52</u>  | 0.25                         | 7.14  | 6.89                     | 4.15                | 4.15         |
| 0.12                  | 5.28       | 3.68                      | 1.08                | 10.16        | 0.30                         | 6.60  | 6.30                     | 4.11                | 4.27         |
| 1.10                  | 3.60       | 0.64                      | 0.14                | 5.48         | 0.32                         | 10.32 | 10.00                    | 5.26                | 5.44         |
| 0.00                  | 4.80       | 2.42                      | 0.62                | <u>7.84</u>  | 0.13                         | 6.20  | 6.07                     | 1.40                | 2.09         |
| 0.00                  | 4.16       | 2.50                      | 0.78                | <u>7.44</u>  | 0.21                         | 6.86  | 6.65                     | 5.30                | 6.34         |
| 1.36                  | 2.56       | 7.36                      | 0.00                | 11.28        | 0.00                         | 5.06  | 5.06                     | 4.48                | 5.43         |
| 0.00                  | 0.00       | 0.46                      | 4.58                | 5.04         | 0.29                         | 7.97  | 7.68                     | ....                | ....         |
| 0.44                  | 5.92       | 3.60                      | 0.84                | 10.80        | 0.20                         | 5.57  | 5.37                     | 3.44                | 5.06         |
| 0.52                  | 0.48       | 2.16                      | 2.88                | 6.04         | 0.22                         | 4.72  | 4.50                     | 0.55                | 6.57         |
| 0.00                  | 2.64       | 2.40                      | 5.54                | 10.58        | 0.49                         | 7.10  | 6.61                     | 5.30                | 5.30         |
| 1.46                  | 5.44       | 0.16                      | 0.10                | 7.16         | 0.12                         | 7.40  | 7.28                     | 4.90                | <u>6.75</u>  |
| 0.00                  | 2.80       | 0.96                      | 1.24                | 5.00         | 0.89                         | 11.17 | 10.28                    | 5.18                | <u>5.18</u>  |
| 0.00                  | 0.32       | 1.34                      | 1.86                | 3.52         | ....                         | 2.67  | ....                     | 0.38                | 1.91         |
| 0.00                  | 3.44       | 2.88                      | 4.22                | 10.54        | 0.16                         | 8.20  | 8.04                     | 4.15                | 4.25         |
| 0.24                  | 4.56       | 0.80                      | 2.64                | 8.24         | 0.31                         | 7.40  | 7.09                     | 4.58                | 4.75         |
| 0.00                  | 3.60       | 1.36                      | 3.04                | 8.00         | 0.29                         | 7.07  | 6.78                     | 3.98                | 4.59         |
| 0.56                  | 2.88       | 12.64                     | 1.52                | <u>17.60</u> | 0.34                         | 2.60  | <u>2.26</u>              | 2.08                | 5.14         |

<sup>10</sup> Magnesium: Guaranteed, 1.20%; found, 1.94%.<sup>11</sup> Magnesium: Guaranteed, 0.90%; found, 1.02%.

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                       | Manufacturer and brand                                   | Place of Sampling |
|-------------------------------------------------------------------|----------------------------------------------------------|-------------------|
| <u>THE DAVEY TREE EXPERT CO.,</u><br>Kent, Ohio                   |                                                          |                   |
| 9408                                                              | Davey Arbor Green Improved Tree Food 3-1-1               | Old Greenwich     |
| 9409                                                              | Davey Tree Food 12-4-4                                   | Old Greenwich     |
| 9410                                                              | Da-V-Green Lawn Food 15-5-5                              | Old Greenwich     |
| <u>DAYTON FERTILIZER CORP.,</u><br>Dayton, N. J.                  |                                                          |                   |
| 9026                                                              | 10-6-4 Fertilizer                                        | West Haven        |
| 9027                                                              | Grand Garden Fertilizer 6-10-4                           | West Haven        |
| 9100                                                              | Grand Lawn Lawn & Garden Fertilizer (40% Organic) 10-6-4 | Norwalk           |
| 9099                                                              | Grand Lawn Lightweight Fertilizer 15-7-5                 | Norwalk           |
| <u>DEANE SEED CO., Wethersfield, Conn.</u>                        |                                                          |                   |
| 9436                                                              | Formula 22-35X 20-10-5 Lawn Fertilizer                   | Wethersfield      |
| <u>E. I. du PONT de NEMOURS &amp; CO.,</u><br>Wilmington 98, Del. |                                                          |                   |
| 9032                                                              | Du Pont Turf Food 20-10-10 with 2, 4-D Weed Killer       | Berlin            |
| 8993 <sup>12</sup>                                                | Du Pont Turf Food 20-10-10                               | Wallingford       |
| <u>EASTERN DEHYDRATING CO.,</u><br>Lexington, N. C.               |                                                          |                   |
| 9185                                                              | Fertal-Gro Ground Tobacco Stems                          | Centerbrook       |
| 9724                                                              | Fertal-Gro T-Mulch Ground Tobacco Stems 1.5-0.5-7        | W. Hartford       |

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total |
| 0.00                  | 0.32       | 2.00                      | 1.06                | 3.38         | 0.02                         | 1.33  | 1.31                     | 0.22                | 1.31  |
| 0.90                  | 9.76       | 0.08                      | 0.70                | 11.44        | 0.25                         | 4.87  | 4.62                     | 3.43                | 4.41  |
| 0.46                  | 5.12       | 3.60                      | 5.46                | 14.64        | 0.54                         | 5.61  | 5.07                     | 0.30                | 5.17  |
| 0.64                  | 8.48       | 0.40                      | 0.16                | 9.68         | 0.07                         | 7.13  | 7.06                     | 4.38                | 4.39  |
| 1.66                  | 4.56       | 0.56                      | 0.14                | <u>6.92</u>  | 0.13                         | 9.53  | <u>9.40</u>              | 4.30                | 4.39  |
| 0.60                  | 6.08       | 2.56                      | 0.76                | 10.00        | 0.23                         | 6.22  | 5.99                     | 4.24                | 4.43  |
| 0.18                  | 13.12      | 0.64                      | 0.62                | <u>14.56</u> | 0.37                         | 7.50  | 7.13                     | 4.26                | 5.41  |
| 0.00                  | 5.12       | 14.08                     | 2.08                | 21.28        | 0.26                         | 11.24 | 10.98                    | 5.19                | 5.50  |
| 0.00                  | 3.36       | 7.04                      | 9.60                | 20.00        | 0.17                         | 10.01 | <u>9.84</u>              | 9.66                | 10.08 |
| 0.00                  | 6.88       | 5.44                      | 8.16                | 20.48        | 0.41                         | 10.88 | <u>10.47</u>             | 9.80                | 10.19 |
| ....                  | ....       | ....                      | ....                | 1.40         | 0.11                         | 0.78  | 0.67                     | 3.08                | 8.32  |
| ....                  | ....       | ....                      | ....                | 1.56         | 0.02                         | 0.70  | 0.68                     | 3.45                | 7.24  |

<sup>12</sup> Iron: Guaranteed, 0.50%; found, 0.98%.



TABLE 5.

## ANALYSES OF MIXED FERTILIZERS

| Station No.                                                                        | Manufacturer and brand                                              | Place of Sampling |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------|
| <u>EASTERN STATES FARMERS'</u><br><u>EXCHANGE, INC.</u><br>West Springfield, Mass. |                                                                     |                   |
|                                                                                    |                                                                     |                   |
| 9800 <sup>13</sup>                                                                 | Eastern States 0-10-30 with Boron<br>with 0.3 Heptachlor            | Willimantic       |
| 9002 <sup>13a</sup>                                                                | Eastern States 0-15-30 with Borax                                   | North Haven       |
| 9500                                                                               | Eastern States 0-25-25 Fertilizer                                   | Putnam            |
| 8919 <sup>14</sup>                                                                 | Eastern States 5-10-10                                              | Hazardville       |
| 9314 <sup>15</sup>                                                                 | Eastern States 5-10-10 for Vegetable,<br>Flower Gardens & Lawn Est. | Rockville         |
| 8918                                                                               | Eastern States 8-16-16                                              | Granby            |
| 9498 <sup>16</sup>                                                                 | Eastern States 10-10-10 Fertilizer                                  | Putnam            |
| 9803 <sup>17</sup>                                                                 | Eastern States 10-10-10 Fertilizer L.C.                             | Buckland          |
| 9515 <sup>18</sup>                                                                 | Eastern States 10-20-10 Fertilizer                                  | Yantic            |
| 9501                                                                               | Eastern States 10-20-20 Fertilizer                                  | Putnam            |
| 9001                                                                               | Eastern States 15-10-10                                             | North Haven       |
| 9313                                                                               | Eastern States 15-15-5                                              | Rockville         |
| 9499 <sup>19</sup>                                                                 | Eastern States 10-5-5 Green Lawn                                    | Putnam            |
| 8925 <sup>20</sup>                                                                 | Eastern States 10-5-5 Green Lawn<br>with Dacthal                    | Buckland          |
| 8920 <sup>21</sup>                                                                 | Eastern States Lawn Special 10-6-4                                  | Hazardville       |
| <u>THE ESPOMA CO., Millville, N. J.</u>                                            |                                                                     |                   |
| 9372                                                                               | Bulb-Tone 4-10-6                                                    | Greenwich         |
| 9625                                                                               | Espoma Garden-Tone 4-6-6                                            | Trumbull          |
| 9370                                                                               | Espoma Organic 3-2-1                                                | Greenwich         |
| 9573                                                                               | Espoma Rose Food 6-6-4                                              | New Canaan        |
| 9627                                                                               | Espoma Rose Food 6-6-4                                              | Trumbull          |
| 9626                                                                               | Espoma Turf-Tone 10-6-4                                             | Trumbull          |
| 9371 <sup>22</sup>                                                                 | Holly-Tone 4-6-4                                                    | Greenwich         |

~~~~~ Indicates deficiencies.

¹³ Boron: Guaranteed, 0.30% min., 0.50% max.; found, 0.51%.

^{13a} Boron: Guaranteed, 0.30%; found, 0.38%.

¹⁴ Magnesium: Guaranteed, 1.80%; found 2.10%.

¹⁵ Magnesium: Guaranteed, 1.80%; found, 2.46%.

¹⁶ Magnesium: Guaranteed, 0.60%; found, 1.10%.

TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |

| | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| ..... | ..... | ..... | ..... | ..... | 0.40 | 10.40 | 10.00 | 30.90 | 30.90 |
| ..... | ..... | ..... | ..... | ..... | 0.20 | 10.94 | 10.74 | 28.92 | 30.14 |
| ..... | ..... | ..... | ..... | ..... | 0.69 | 25.52 | 24.83 | 22.27 | 25.62 |
| 1.16 | 3.20 | 0.56 | 0.08 | 5.00 | 0.33 | 10.64 | 10.31 | 9.72 | 10.19 |

| | | | | | | | | | |
|------|-------|------|------|-------|------|-------|-------|-------|-------|
| 1.46 | 3.52 | 0.40 | 0.30 | 5.68 | 0.30 | 10.50 | 10.20 | 9.82 | 10.37 |
| 2.24 | 5.20 | 0.64 | 0.16 | 8.24 | 0.46 | 16.90 | 16.44 | 16.02 | 16.08 |
| 2.16 | 6.96 | 0.24 | 1.36 | 10.72 | 0.37 | 10.50 | 10.13 | 4.86 | 10.32 |
| 2.16 | 7.52 | 0.56 | 0.00 | 10.24 | 0.20 | 10.50 | 10.30 | 1.11 | 9.80 |
| 2.62 | 7.52 | 0.56 | 0.10 | 10.80 | 0.60 | 20.30 | 19.70 | 8.83 | 10.14 |
| 2.24 | 7.12 | 0.64 | 0.00 | 10.00 | 0.18 | 20.41 | 20.23 | 19.80 | 20.57 |
| 1.76 | 12.96 | 0.32 | 0.00 | 15.04 | 0.10 | 11.43 | 11.33 | 9.28 | 10.55 |
| 1.60 | 13.36 | 0.16 | 0.00 | 15.12 | 0.00 | 15.00 | 15.00 | 12.52 | 15.50 |
| 0.14 | 2.24 | 2.72 | 4.90 | 10.00 | 0.34 | 5.49 | 5.15 | 4.07 | 5.27 |

| | | | | | | | | | |
|------|------|------|------|-------|------|------|------|------|------|
| 0.16 | 2.40 | 2.72 | 5.28 | 10.56 | 0.27 | 5.27 | 5.00 | 4.21 | 5.13 |
| 0.00 | 5.36 | 2.36 | 2.28 | 10.00 | 0.22 | 6.55 | 6.33 | 4.34 | 5.15 |

| | | | | | | | | | |
|------|------|------|------|-------|------|-------|-------|------|------|
| 0.00 | 3.52 | 0.48 | 1.32 | 5.32 | 0.65 | 13.30 | 12.65 | 6.09 | 7.40 |
| 0.00 | 3.36 | 0.32 | 0.80 | 4.48 | 0.51 | 7.92 | 7.41 | 4.31 | 6.44 |
| 0.00 | 1.68 | 0.50 | 1.50 | 3.68 | 0.33 | 3.48 | 3.15 | 1.06 | 2.62 |
| 0.00 | 3.76 | 0.64 | 1.60 | 6.00 | 0.28 | 6.66 | 6.38 | 4.50 | 4.71 |
| 0.00 | 2.08 | 4.16 | 1.28 | 7.52 | 0.33 | 6.64 | 6.31 | 3.82 | 5.18 |
| 0.22 | 4.88 | 4.08 | 1.06 | 10.24 | 0.12 | 6.87 | 6.75 | 2.85 | 4.11 |
| 0.00 | 3.52 | 0.32 | 1.50 | 5.34 | 0.39 | 7.10 | 6.71 | 5.23 | 6.97 |

¹⁷ Magnesium: Guaranteed, 1.20%; found, 1.53%.

¹⁸ Magnesium: Guaranteed, 0.60%; found, 0.82%.

¹⁹ Magnesium: Guaranteed, 2.40%; found, 2.78%.

²⁰ Magnesium: Guaranteed, 2.40%; found, 2.45%.

²¹ Magnesium: Guaranteed, 2.40%; found, 2.73%.

²² Iron: Guaranteed, 0.10%; found, 0.27%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|---|---|-------------------|
| <u>FAESY & BESTHOFF, INC.,</u>
New York 10, N. Y. | | |
| 9589 ²³ | F & B Azalea, Camellia & Rhododendron Food 5-10-10 | Thompsonville |
| 9446 | F & B Garden Food 5-10-5 | Wethersfield |
| <u>FEDERAL CHEMICAL CO.,</u>
Cranbury, N. J. | | |
| 9637 | Federal Lawn Life Plant Food 10-6-4 | Fairfield |
| 9631 | Federal Lawn Life Plant Food 10-6-4
50% Organic | Fairfield |
| 9632 | Federal Lawn Life Plant Food 10-6-4
100% Organic | |
| 9639 | Federal Lawn Life Plant Food 20-10-5 | Fairfield |
| 9638 | Lawn & Garden Food 5-10-5 | Fairfield |
| 9577 | Princeton Park Lawn & Garden
Fertilizer 5-10-5 | Ridgefield |
| 9097 | Princeton Park 10-6-4 Lawn & Garden
Fertilizer | Norwalk |
| <u>FEINMAN & GOTTLIEB,</u>
New York, N. Y. | | |
| 9006 | Glorion Weed & Feed 10-6-4 Fertilizer
2, 4-D with Silvex | Stratford |
| 9008 | New Glorion 10-6-4 100% Organic N | Stratford |
| <u>FIRST NATIONAL STORES, INC.,</u>
East Hartford, Conn. | | |
| 9230 | Emerald Green 12-5-7 Lawn Food | New London |
| 9811 | Emerald Green Plant Food 8-12-6 | Portland |
| 9802 | Emerald Green Plant Food 8-12-6 | Manchester |
| <u>THE GARDEN CENTER, INC.,</u>
West Hartford, Conn. | | |
| 9723 | The Garden Center of West Hartford
Lawn Food 10-6-4 | W. Hartford |

~~~~~ Indicates deficiencies.

TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |             |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total       |
| 0.58                  | 2.64       | 0.80                      | 1.30                | 5.32         | 0.61                         | 11.70 | 11.09                    | 10.30               | 10.57       |
| 0.60                  | 2.32       | 0.24                      | 1.84                | 5.00         | 0.83                         | 11.78 | 10.95                    | 6.08                | 6.24        |
| 0.80                  | 7.12       | 2.08                      | 0.00                | 10.00        | 0.51                         | 7.33  | 6.82                     | 2.95                | 4.84        |
| 0.00                  | 5.28       | 4.18                      | 0.54                | 10.00        | 0.41                         | 6.94  | 6.53                     | 3.41                | 4.00        |
| 0.62                  | 2.72       | 5.84                      | 0.90                | 10.08        | 0.46                         | 6.60  | 6.14                     | 2.86                | 4.00        |
| 0.96                  | 4.48       | 13.44                     | 0.00                | <u>18.88</u> | 0.25                         | 15.70 | 15.45                    | 0.41                | <u>4.27</u> |
| 0.56                  | 5.76       | 0.40                      | 0.00                | <u>6.72</u>  | 0.68                         | 10.20 | <u>9.52</u>              | 1.19                | 5.05        |
| 0.00                  | 5.00       | 0.44                      | 0.00                | 5.44         | 0.64                         | 11.00 | 10.36                    | 3.25                | 5.05        |
| 2.08                  | 7.36       | 0.32                      | 0.00                | <u>9.76</u>  | 0.47                         | 7.05  | 6.58                     | 3.00                | 3.90        |
| 0.00                  | 4.56       | 6.48                      | 0.40                | 11.44        | 0.40                         | 6.73  | 6.33                     | 4.25                | 4.49        |
| 0.32                  | 1.52       | 7.36                      | 1.28                | 10.48        | 0.13                         | 6.21  | 6.08                     | 2.72                | 4.39        |
| 0.78                  | 6.64       | 1.44                      | 0.66                | <u>9.52</u>  | 0.26                         | 8.25  | 7.99                     | 5.86                | 7.02        |
| 1.08                  | 5.12       | 0.80                      | 0.60                | <u>7.60</u>  | 0.96                         | 12.40 | <u>11.44</u>             | 5.88                | 6.24        |
| 0.28                  | 4.80       | 3.52                      | 0.44                | 9.04         | 0.43                         | 12.30 | 11.87                    | 8.04                | 8.81        |
| 0.28                  | 4.80       | 3.68                      | 1.24                | 10.00        | 0.48                         | 6.66  | 6.18                     | 3.75                | 4.00        |

<sup>23</sup> Iron: Guaranteed, 0.15%; found, 1.30%.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                                 | Manufacturer and brand                                                   | Place of Sampling |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------|
| <u>GLEN TERRACE NURSERIES, INC.,</u><br>Hamden, Conn.                       |                                                                          |                   |
| 8989                                                                        | Glen Terrace Lawn Food 10-6-4                                            | Hamden            |
| <u>GODFREY'S GARDEN SHOP,</u><br>Fairfield, Conn.                           |                                                                          |                   |
| 9629                                                                        | Godfrey's Lawn & Tree Food 10-5-5                                        | Fairfield         |
| <u>GOULARD &amp; OLENA, INC.,</u><br>Skillman, N. J.                        |                                                                          |                   |
| 9075                                                                        | G & O Blue Ribbon for Fine Lawns,<br>Flowers, Shrubs & Vegetables 5-10-5 | Norwalk           |
| 9740                                                                        | G & O Bulb Food 5-6-15                                                   | W. Hartford       |
| 9074                                                                        | G & O 10-6-4 Green Ribbon                                                | Norwalk           |
| 9306                                                                        | G & O Hyganic Lawn Food 10-6-4                                           | Manchester        |
| 9307                                                                        | G & O Light Fantastic Lawn Food 20-6-4                                   | Manchester        |
| 9308                                                                        | G & O Prizegro for Gardens 5-10-5                                        | Manchester        |
| 9076 <sup>24</sup>                                                          | G & O Rose Food 7-8-5                                                    | Norwalk           |
| <u>W. R. GRACE &amp; CO., Davison Chemi-</u><br>cal Div., Baltimore 26, Md. |                                                                          |                   |
| 9794                                                                        | Davco 3G Granulated Fertilizer 0-10-30                                   | Torrington        |
| 9781                                                                        | Davco 3G Granulated Fertilizer 0-15-30                                   | New Milford       |
| 9780                                                                        | Davco 3G Granulated Fertilizer 0-20-20                                   | New Milford       |
| 9771                                                                        | Davco Turf & Garden Food 5-10-5                                          | New Milford       |
| 9769                                                                        | Davco 3G Granulated Fertilizer 5-10-5                                    | New Milford       |
| 9782                                                                        | Davco 3G Granulated Fertilizer 5-10-10                                   | New Milford       |
| 9778                                                                        | Davco 3G Granulated Fertilizer 8-16-16                                   | New Milford       |
| 9770                                                                        | Davco 3G Granulated Fertilizer 10-6-4<br>Organic                         | New Milford       |
| 9779                                                                        | Davco 3G Granulated Fertilizer 10-10-10                                  | New Milford       |
| 9768                                                                        | Davco 3G Granulated Fertilizer 15-10-10                                  | New Milford       |
| 9041                                                                        | Granulated Magnesium Ammonium<br>Phosphate 8-40-0 Fertilizer             | Hartford          |

~~~~~ Indicates deficiencies.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|--------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.26 | 4.56 | 3.84 | 1.50 | 10.16 | 0.33 | 6.56 | 6.23 | 3.98 | 4.43 |
| 0.24 | 1.44 | 7.04 | 1.60 | 10.32 | 0.40 | 7.61 | 7.21 | 4.29 | <u>4.29</u> |
| 0.42 | 4.16 | 0.48 | 0.22 | 5.28 | 0.72 | 10.21 | <u>9.49</u> | 4.62 | 5.13 |
| 0.00 | 3.76 | 1.28 | 0.60 | 5.64 | 0.36 | 6.40 | 6.04 | 8.52 | 15.56 |
| 0.76 | 8.24 | 0.32 | 0.28 | <u>9.60</u> | 0.56 | 6.08 | <u>5.52</u> | 3.25 | 4.15 |
| 0.00 | 5.04 | 2.56 | 1.52 | <u>9.12</u> | 0.37 | 7.24 | 6.87 | 3.30 | 4.20 |
| 0.00 | 4.00 | 6.88 | 8.08 | <u>18.96</u> | 0.28 | 6.58 | 6.30 | 3.90 | 4.25 |
| 0.54 | 3.68 | 0.64 | 0.94 | <u>5.80</u> | 0.71 | 11.20 | 10.49 | 4.47 | 5.05 |
| 0.66 | 5.20 | 0.72 | 0.74 | 7.32 | 0.54 | 9.00 | 8.46 | 5.41 | 5.41 |
| ..... | ..... | ..... | ..... | ..... | 0.43 | 12.19 | 11.76 | 24.27 | <u>25.86</u> |
| ..... | ..... | ..... | ..... | ..... | 0.65 | 13.00 | <u>12.35</u> | 28.25 | <u>30.38</u> |
| ..... | ..... | ..... | ..... | ..... | 1.25 | 20.01 | <u>18.76</u> | 20.38 | 20.38 |
| 0.88 | 4.24 | 0.08 | 0.00 | 5.20 | 0.29 | 10.89 | <u>10.60</u> | 6.04 | 6.52 |
| 1.04 | 4.08 | 0.16 | 0.00 | 5.28 | 0.26 | 10.84 | 10.58 | 5.85 | 7.25 |
| 0.92 | 4.32 | 0.40 | 0.00 | 5.64 | 0.37 | 11.88 | 11.51 | 8.72 | 10.23 |
| 1.56 | 5.12 | 0.16 | 0.00 | <u>6.84</u> | 0.41 | 14.50 | <u>14.09</u> | 9.88 | <u>12.80</u> |
| 1.24 | 4.64 | 0.80 | 2.52 | <u>9.20</u> | 0.25 | 8.01 | 7.76 | 3.62 | 6.33 |
| 2.14 | 6.00 | 0.48 | 0.42 | <u>9.04</u> | 0.42 | 10.80 | 10.38 | 7.96 | 10.02 |
| 2.40 | 10.40 | 0.80 | 0.00 | <u>13.60</u> | 0.22 | 10.25 | 10.03 | 10.30 | 10.30 |
| 0.00 | 0.80 | 0.28 | 6.94 | 8.02 | 0.08 | 40.17 | 40.09 | ..... | ..... |

²⁴ Iron: Guaranteed, 0.15%; found, 0.78%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|---|---|-------------------|
| <u>THE GREENLIFE PRODUCTS CO.,</u>
West Point, Va. | | |
| 9403 | Greenlife Plant Food 10-6-4 | Cos Cob |
| 9404 | Greenlife Rose Food 8-8-8 | Cos Cob |
| <u>GREEN RIBBON PRODUCTS CO.,</u>
North Haven, Conn. | | |
| 8964 | Green Ribbon 5-10-5 | Derby |
| 9067 | Green Ribbon Lawn Food 10-6-4 | Bristol |
| <u>HALSTEAD DISTRIBUTING CORP.,</u>
Mt. Kisco, N. Y. | | |
| 9417 | Just Right 5-10-5 | Darien |
| 9433 | Just Right 10-6-4 | Darien |
| <u>THE CHARLES C. HART SEED CO.,</u>
Wethersfield, Conn. | | |
| 9441 | Hart's All Organic Plant Food 5-4-0 | Wethersfield |
| 9434 | Hart's All Purpose Plant Food 5-10-5 | Wethersfield |
| 9057 | Hart's Turf Food 20-10-5 | Plainville |
| 9305 | Hart's Two-For-One 10-6-4 | Manchester |
| <u>HERITAGE HOUSE PRODUCTS, INC.,</u>
Philadelphia 47, Pa. | | |
| 9106 | Heritage House Lawn Food 20-10-10 | North Haven |
| 8913 | Heritage House Three-In-One 10-6-4 | Granby |
| 9116 | Heritage House Weed Killer plus Lawn
Food 10-6-4 | North Haven |
| <u>A. H. HOFFMAN, INC.,</u>
Landisville, Pa. | | |
| 9462 | Mistress Mary Brand Fertilizer for
Gardens 5-10-10 | Newington |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |             |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total       |
| 0.00                  | 2.08       | 8.24                      | 1.00                | 11.32        | 0.02                         | 6.90  | 6.88                     | 4.11                | 4.54        |
| 0.00                  | 2.32       | 4.68                      | 0.88                | 7.88         | 0.02                         | 8.41  | 8.39                     | 7.54                | 8.07        |
| 0.00                  | 3.60       | 1.50                      | 0.14                | 5.24         | 0.39                         | 10.64 | 10.25                    | 4.83                | 5.57        |
| 0.00                  | 7.60       | 2.64                      | 0.00                | 10.24        | 0.33                         | 6.69  | 6.36                     | 1.95                | 4.30        |
| 0.14                  | 4.24       | 0.72                      | 0.26                | 5.36         | 0.15                         | 10.02 | 9.87                     | 5.07                | 5.13        |
| 0.62                  | 4.80       | 2.24                      | 2.42                | 10.08        | 0.58                         | 7.10  | 6.52                     | 4.84                | 4.84        |
| 0.00                  | 0.00       | 0.26                      | 5.10                | 5.36         | 0.88                         | 6.37  | 5.49                     | ....                | ....        |
| 1.36                  | 3.84       | 0.64                      | 0.24                | 6.08         | 0.34                         | 11.89 | 11.55                    | 4.58                | 5.08        |
| 1.00                  | 6.24       | 9.28                      | 2.84                | <u>19.36</u> | 0.52                         | 12.77 | 12.25                    | 4.02                | 5.13        |
| 0.00                  | 3.44       | 8.98                      | 0.30                | 12.72        | 0.09                         | 6.50  | 6.41                     | 3.20                | <u>3.77</u> |
| 0.36                  | 3.68       | 13.76                     | 2.36                | 20.16        | 0.49                         | 10.96 | 10.47                    | 10.82               | 10.82       |
| ....                  | ....       | ....                      | ....                | 13.92        | 0.04                         | 10.54 | 10.50                    | 9.14                | 9.97        |
| 0.24                  | 2.32       | 7.28                      | 0.72                | 10.56        | 0.00                         | 4.00  | <u>4.00</u>              | 3.16                | 4.05        |
| 0.24                  | 4.08       | 0.16                      | 0.72                | 5.20         | 0.07                         | 10.20 | 10.13                    | 7.34                | 10.06       |



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                               | Manufacturer and brand                                             | Place of Sampling |
|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------|
| <u>HOLDRIDGE FARM NURSERY,</u><br>Ledyard, Conn.          |                                                                    |                   |
| 9234                                                      | Holdridge 20-6-4 Turf Food                                         | Ledyard           |
| <u>THE HUBBARD-HALL CHEMICAL CO.,</u><br>Waterbury, Conn. |                                                                    |                   |
| 9060                                                      | Green Gro Lawn Fertilizer 6-7-4                                    | Bristol           |
| 9775                                                      | Gro-Fast Sol Wat. Sol. Conc. 15-20-16                              | Portland          |
| 9785                                                      | 8-6-4 Grubidizer with 10 1/2 lbs.<br>Actual Dieltrin Per Ton 8-6-4 | Waterbury         |
| 9474                                                      | HH Blade Lawn Food 20-6-4                                          | Norwich           |
| 9061                                                      | HH Evergreen Food 4-10-4                                           | Bristol           |
| 9204                                                      | HH Gro-Mor Garden Fertilizer 5-10-10                               | Centerbrook       |
| 9062                                                      | HH Lawn Fertilizer with Chlordane 8-6-4                            | Bristol           |
| 8971                                                      | HH Luxura Lawn Food 10-5-5                                         | Cheshire          |
| 8970                                                      | HH Nitroganic 5-4-0                                                | Cheshire          |
| 9205                                                      | HH Plant Food 5-10-5                                               | Centerbrook       |
| 9119                                                      | HH Rose Food 7-10-5                                                | Middletown        |
| 8959                                                      | HH Turf & Tree Food 10-6-4 with<br>Urea-Form                       | Norwich           |
| 9361                                                      | HH Turf & Tree Food 10-6-4 with Zytron                             | Bridgeport        |
| 9118                                                      | HH Weed-Kil Lawn Food 10-6-4 with<br>2, 4-D                        | Middletown        |
| 13 <sup>1</sup>                                           | Lawncraft 10-6-4 50% Nitrogen Organic                              | W. Hartford       |
| 12 <sup>1</sup>                                           | Lawncraft 10-6-4 50% Nitrogen Organic                              | W. Hartford       |
| 9349                                                      | Lawn Craft 10-6-4 Turf Fertilizer                                  | North Haven       |
| 9523                                                      | Lawn Craft VFT 5-4-0 Turf Food                                     | Portland          |
| 9519                                                      | Lawn Craft Turf Food 6-12-4 Seed<br>Starter                        | Portland          |
| 9348                                                      | Lawn Craft 8-6-4 Turf Food                                         | North Haven       |
| 9524                                                      | Lawn Craft Turf Food VFT Fortified<br>9-5-3                        | Portland          |
| 9483 <sup>1</sup>                                         | Lawn Craft Turf Food 10-5-5 70%<br>Nitrogen Organic                | Norwich           |
| 9763                                                      | Liberty Fertilizer 0-20-20                                         | Windsorville      |
| 9125 <sup>1</sup>                                         | Liberty Fertilizer 0-20-20 (Custom<br>Mixed with Borax)            | Southbury         |

~~~~~ Indicates deficiencies.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.00 | 6.56 | 1.60 | 8.28 | <u>16.44</u> | 0.25 | 7.30 | 7.05 | 5.02 | 5.29 |
| 0.10 | 3.68 | 1.76 | 0.74 | 6.28 | 0.28 | 7.66 | 7.38 | 4.13 | 4.43 |
| 3.20 | 5.04 | 8.16 | 0.00 | 16.40 | 0.00 | 20.10 | 20.10 | 16.24 | 16.70 |
| 0.00 | 2.16 | 4.24 | 2.88 | 9.28 | 0.41 | 5.80 | <u>5.39</u> | 3.24 | 4.25 |
| 0.00 | 4.96 | 12.80 | 2.28 | 20.04 | 0.55 | 4.55 | <u>4.00</u> | 0.12 | 4.09 |
| 0.00 | 2.40 | 1.10 | 0.94 | 4.44 | 0.29 | 10.31 | 10.02 | 4.34 | 5.20 |
| 0.76 | 3.76 | 0.64 | 0.12 | 5.28 | 0.40 | 10.53 | 10.13 | 7.70 | 10.12 |
| 0.00 | 3.52 | 2.84 | 0.92 | <u>7.28</u> | 0.43 | 8.80 | 8.37 | 3.12 | 4.55 |
| 0.00 | 1.36 | 6.24 | 2.40 | 10.00 | 0.33 | 5.51 | 5.18 | 5.22 | 5.50 |
| 0.00 | 0.40 | 0.48 | 4.50 | 5.38 | 0.19 | 6.95 | 6.76 | .... | .... |
| 0.00 | 2.72 | 2.02 | 0.82 | 5.56 | 0.57 | 10.50 | 9.93 | 4.82 | 5.38 |
| 0.28 | 3.36 | 2.00 | 0.96 | <u>6.60</u> | 0.35 | 13.13 | 12.78 | 0.63 | 5.19 |
| 0.00 | 4.32 | 4.48 | 1.40 | 10.20 | 0.35 | 6.75 | 6.40 | 4.18 | 4.30 |
| 0.00 | 4.72 | 5.10 | 1.70 | 11.52 | 0.69 | 7.05 | 6.36 | 4.52 | 4.52 |
| 0.00 | 3.60 | 9.62 | 0.22 | 13.44 | 0.38 | 6.79 | 6.41 | 3.52 | 4.21 |
| 0.00 | 5.76 | 0.72 | 4.60 | 11.08 | 0.06 | 7.93 | 7.87 | 4.81 | 5.32 |
| 0.00 | 5.20 | 0.72 | 5.24 | 11.16 | 0.04 | 6.43 | 6.39 | 5.58 | 5.62 |
| 0.18 | 3.52 | 6.00 | 0.78 | 10.48 | 0.29 | 6.80 | 6.51 | 6.09 | 6.60 |
| 0.00 | 0.56 | 0.32 | 4.32 | 5.20 | 0.73 | 5.84 | 5.11 | .... | .... |
| 0.00 | 6.16 | 0.00 | 0.10 | 6.26 | 0.59 | 12.60 | 12.01 | 4.38 | 4.56 |
| 0.00 | 4.00 | 3.60 | 1.00 | 8.60 | 0.37 | 7.60 | 7.23 | 5.52 | 5.77 |
| 0.00 | 0.24 | 1.36 | 6.64 | <u>8.24</u> | 0.44 | 4.60 | <u>4.16</u> | 3.75 | 3.75 |
| 0.00 | 1.52 | 6.56 | 1.96 | 10.04 | 0.28 | 5.88 | 5.60 | 4.76 | 6.10 |
| .... | .... | .... | .... | .... | 0.70 | 21.10 | 20.40 | 16.81 | 20.06 |
| .... | .... | .... | .... | .... | 0.76 | 21.40 | 20.64 | 20.02 | 20.45 |

¹ State purchase.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|-----------------------|--|-------------------|
| 9122 ¹ | Liberty Fertilizer 0-20-20 (Custom Mixed with Borax) | Middletown |
| 9575 | Liberty Fertilizer 5-8-7 | Ridgefield |
| 9354 | Liberty Fertilizer 5-10-5 | North Haven |
| 9595 | Liberty Fertilizer 5-10-10 | Windsorville |
| 8957 ¹ | Liberty Fertilizer 5-10-10 | Meriden |
| 9457 ^{1, 25} | Liberty Fertilizer 5-10-10-2 | Middletown |
| 8960 ²⁶ | Liberty Fertilizer 5-10-10-2 | Norwich |
| 9031 | Liberty Fertilizer 7-7-7 | Kensington |
| 9807 | Liberty Fertilizer 8-6-4 Fish Base
50% Nitrogen Organic | Portland |
| 9765 ²⁷ | Liberty Fertilizer 8-12-12-2 | Windsorville |
| 9353 | Liberty Fertilizer 8-16-16 | North Haven |
| 9806 | Liberty Fertilizer 10-6-4 | Portland |
| 9454 | Liberty Fertilizer 10-10-10 | Rocky Hill |
| 9350 | Liberty Fertilizer 10-10-10 | North Haven |
| 9069 ¹ | Liberty Fertilizer 10-10-10 | New Haven |
| 9585 | Liberty Fertilizer 15-10-10 | West Suffield |
| 9484 ¹ | Liberty Fertilizer 15-15-15 | Storrs |
| 9071 ¹ | Liberty Fertilizer 15-15-15 | New Haven |
| 9520 | Liberty Fertilizer 16-8-16 | Portland |
| 9522 | Liberty Fertilizer Blueberry Special
10-5-10 | Portland |
| 9594 | Liberty High Grade Market Gardeners
5-8-7 | Windsorville |
| 9514 | Liberty Super Corn Fertilizer 10-10-10 | Norwich |
| 9764 ²⁸ | Liberty Super Gro Fertilizer 5-10-10-2 | Windsorville |
| 9525 ²⁹ | Liberty Super Gro 6-8-8-2 | Portland |
| 9621 ³⁰ | Liberty Super Gro 6-12-12-2 Fertilizer | Windsorville |
| 9808 ³¹ | Liberty Super Spud 500 5-8-8-2 | Portland |
| 9593 ³² | Liberty Super Spud 6-8-8-2 | Windsorville |

~~~~~ Indicates deficiencies.

<sup>1</sup> State purchase.

<sup>25</sup> Magnesium: Guaranteed, 1.20%; found, 1.64%.

<sup>26</sup> Magnesium: Guaranteed, 1.20%; found, 1.61%.

<sup>27</sup> Magnesium: Guaranteed, 1.20%; found, 1.45%.



TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |              |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|--------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total        |
| .....                 | .....      | .....                     | .....               | .....        | 0.80                         | 21.95 | 21.15                    | 17.83               | <u>17.83</u> |
| 0.60                  | 5.52       | 0.40                      | 0.08                | 6.60         | 0.38                         | 8.38  | 8.00                     | 7.02                | 8.37         |
| 0.00                  | 4.08       | 0.56                      | 0.36                | 5.00         | 0.51                         | 10.81 | 10.30                    | 5.28                | 5.65         |
| 1.00                  | 4.64       | 0.16                      | 0.00                | 5.80         | 0.34                         | 10.69 | 10.35                    | 7.15                | 10.07        |
| 0.68                  | 4.16       | 0.32                      | 0.16                | 5.32         | 0.31                         | 10.01 | <u>9.70</u>              | 8.47                | 10.08        |
| 1.04                  | 3.68       | 0.40                      | 0.00                | 5.12         | 0.45                         | 11.00 | 10.55                    | 9.08                | <u>9.41</u>  |
| 0.76                  | 3.76       | 0.42                      | 0.06                | 5.00         | 0.52                         | 10.72 | 10.20                    | 8.95                | 10.04        |
| 0.30                  | 5.60       | 0.80                      | 0.14                | <u>6.84</u>  | 0.27                         | 7.73  | 7.46                     | 6.41                | 7.06         |
| 0.00                  | 4.32       | 2.80                      | 1.28                | 8.40         | 0.32                         | 6.80  | 6.48                     | 4.05                | 4.21         |
| 0.88                  | 7.36       | 0.16                      | 0.00                | 8.40         | 0.44                         | 12.73 | 12.29                    | 7.80                | <u>10.50</u> |
| 0.00                  | 7.52       | 0.00                      | 0.12                | <u>7.64</u>  | 0.23                         | 16.10 | 15.87                    | 15.52               | 16.08        |
| 0.24                  | 8.64       | 2.32                      | 0.00                | 11.20        | 0.13                         | 6.50  | 6.37                     | 2.78                | 4.65         |
| 0.00                  | 5.44       | 0.48                      | 0.08                | <u>6.00</u>  | 0.18                         | 10.40 | 10.22                    | 10.89               | 10.89        |
| 0.00                  | 0.52       | 8.44                      | 0.00                | <u>8.96</u>  | 0.55                         | 11.78 | 11.23                    | 8.15                | <u>8.62</u>  |
| 0.00                  | 10.48      | 0.00                      | 0.14                | <u>10.62</u> | 0.22                         | 10.90 | 10.68                    | 6.37                | <u>8.97</u>  |
| 1.54                  | 13.12      | 0.00                      | 0.00                | <u>14.66</u> | 0.25                         | 10.38 | 10.13                    | 8.31                | <u>10.32</u> |
| 0.34                  | 13.68      | 0.32                      | 0.14                | <u>14.48</u> | 0.07                         | 14.03 | <u>13.96</u>             | 3.94                | 15.56        |
| 0.26                  | 14.00      | 0.64                      | 0.10                | <u>15.00</u> | 0.05                         | 13.92 | <u>13.87</u>             | 12.47               | 15.16        |
| 2.40                  | 12.96      | 0.00                      | 0.00                | <u>15.36</u> | 0.02                         | 8.58  | 8.56                     | ....                | 16.52        |
| 1.20                  | 7.28       | 0.40                      | 1.20                | 10.08        | 0.07                         | 2.70  | <u>2.63</u>              | 0.24                | <u>9.44</u>  |
| 0.92                  | 3.52       | 0.56                      | 0.00                | 5.00         | 0.24                         | 8.31  | 8.07                     | 6.85                | 7.03         |
| 1.92                  | 7.36       | 0.08                      | 0.00                | <u>9.36</u>  | 0.35                         | 10.93 | 10.58                    | 8.26                | 10.15        |
| 1.24                  | 4.08       | 0.32                      | 0.00                | 5.64         | 0.50                         | 11.39 | 10.89                    | 7.80                | 10.15        |
| 0.52                  | 5.04       | 0.80                      | 0.16                | 6.52         | 0.40                         | 8.71  | 8.31                     | 6.97                | 8.23         |
| 1.00                  | 5.36       | 0.24                      | 0.16                | 6.76         | 0.35                         | 12.20 | 11.85                    | 8.00                | <u>10.83</u> |
| 0.76                  | 3.04       | 0.80                      | 1.16                | 5.76         | 0.24                         | 8.70  | 8.46                     | 6.13                | <u>8.74</u>  |
| 1.12                  | 4.88       | 0.24                      | 0.00                | 6.24         | 0.25                         | 9.35  | 9.10                     | 7.71                | 11.42        |

<sup>28</sup> Magnesium: Guaranteed, 1.20%; found, 2.23%.

<sup>29</sup> Magnesium: Guaranteed, 1.20%; found, 1.58%.

<sup>30</sup> Magnesium: Guaranteed, 1.20%; found, 1.75%.

<sup>31</sup> Magnesium: Guaranteed, 1.20%; found, 1.72%.

<sup>32</sup> Magnesium: Guaranteed, 1.20%; found, 2.76%.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                               | Manufacturer and brand                                  | Place of Sampling |
|---------------------------------------------------------------------------|---------------------------------------------------------|-------------------|
| 9623 <sup>33</sup>                                                        | Liberty Super Spud Fertilizer<br>8-10-10-2              | Windsorville      |
| 9810                                                                      | Liberty 6-3-6 Half & Half Tobacco<br>Fertilizer         | Portland          |
| 9624                                                                      | Liberty 6-3-6 Tobacco Fertilizer                        | Windsorville      |
| 9596                                                                      | Liberty Truck Garden & Onion 5-10-5                     | Windsorville      |
| 9429                                                                      | 6-7-4 Shade Tree & Ornamental Shrub<br>Food             | Glenbrook         |
| 9162 <sup>1</sup>                                                         | 7-10-5 Fertilizer 60% Organic Nitrogen                  | Newington         |
| 9787                                                                      | Special Mixture 12-6-4 Tree Food                        | Waterbury         |
| 9786                                                                      | Special Warner Mixture 8-6-4 75%<br>Organic             | Waterbury         |
| 9351                                                                      | Woodruff's Lawn & Tree Food 10-5-5                      | North Haven       |
| 8956 <sup>1</sup>                                                         | Woodruff's 10-5-5 Lawn & Tree Food                      | Hartford          |
| <u>INTERNATIONAL MINERALS &amp;<br/>CHEMICAL CORP.,<br/>Woburn, Mass.</u> |                                                         |                   |
| 9013                                                                      | Fertilis All Purpose Plant Food 10-6-4                  | Milford           |
| 9010                                                                      | Mello-Green 5-5-0                                       | Milford           |
| 9534 <sup>34</sup>                                                        | International Fertilizer (Contains<br>Dieldrin) 5-10-10 | Cromwell          |
| <u>LEBANON CHEMICAL CORP.,<br/>Lebanon, Pa.</u>                           |                                                         |                   |
| 9049 <sup>35</sup>                                                        | Lebanon Azalea-Evergreen Food 6-7-5                     | Hartford          |
| 9048                                                                      | Lebanon Crab Seed Killer & Lawn<br>Fertilizer 10-6-4    | Hartford          |
| 9721                                                                      | Lebanon Fertilizer 5-10-10                              | W. Hartford       |
| 9050 <sup>36</sup>                                                        | Lebanon Rose Food 7-7-7                                 | Hartford          |
| 9718                                                                      | Lebanon Turf Organic 5-4-0                              | W. Hartford       |

~~~~~ Indicates deficiencies.

¹ State purchase.

³³ Magnesium: Guaranteed, 1.20%; found, 2.03%.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|-------------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 1.72 | 6.80 | 0.00 | 0.00 | 8.52 | 0.45 | 11.70 | 11.25 | 7.79 | 10.04 |
| 1.74 | 0.56 | 1.84 | 2.14 | 6.28 | 0.09 | 3.19 | 3.10 | 0.26 | 6.21 |
| 0.92 | 0.32 | 2.24 | 2.80 | 6.28 | 0.09 | 3.50 | 3.41 | 0.00 | 6.54 |
| 1.16 | 3.92 | 0.00 | 0.00 | 5.08 | 0.21 | 8.71 | <u>8.50</u> | 6.31 | 8.42 |
| 0.32 | 4.16 | 0.96 | 0.76 | 6.20 | 0.29 | 7.30 | 7.01 | 4.10 | 4.32 |
| 0.00 | 3.04 | 3.52 | 1.32 | 7.88 | 0.25 | 10.40 | 10.15 | 0.23 | 6.25 |
| 0.00 | 4.24 | 7.28 | 1.28 | 12.80 | 0.45 | 6.04 | <u>5.59</u> | 4.27 | 4.27 |
| 0.00 | 1.60 | 3.28 | 3.34 | 8.22 | 0.39 | 5.70 | <u>5.31</u> | 2.58 | <u>3.23</u> |
| 0.20 | 3.92 | 5.36 | 0.68 | 10.16 | 0.22 | 5.72 | <u>5.50</u> | 4.50 | 5.50 |
| 0.14 | 4.00 | 4.32 | 0.74 | <u>9.20</u> | 0.31 | 5.83 | 5.52 | 4.89 | 5.22 |
| 0.00 | 5.68 | 1.44 | 2.98 | 10.10 | 0.37 | 6.46 | 6.09 | 4.03 | 4.18 |
| 0.00 | 0.08 | 0.32 | 4.76 | 5.16 | 1.10 | 6.79 | 5.69 | .... | .... |
| 1.16 | 3.60 | 0.64 | 0.00 | 5.40 | 0.40 | 10.80 | 10.40 | 9.29 | 9.94 |
| 0.18 | 5.20 | 1.04 | 1.30 | 7.72 | 0.40 | 7.92 | 7.52 | 5.08 | 5.08 |
| 0.00 | 4.32 | 6.56 | 0.52 | 11.40 | 0.78 | 6.92 | 6.14 | 3.89 | 4.39 |
| 1.26 | 3.44 | 0.24 | 0.14 | 5.08 | 0.19 | 9.90 | <u>9.71</u> | 10.88 | 11.17 |
| 0.00 | 5.44 | 1.12 | 1.40 | 7.96 | 0.37 | 7.71 | 7.34 | 7.11 | 7.68 |
| 0.00 | 0.16 | 0.48 | 4.90 | 5.54 | 0.66 | 6.19 | 5.53 | .... | .... |

³⁴ Magnesium: Guaranteed, 1.20%; found, 1.41%.

³⁵ Iron: Guaranteed, 0.75%; found, 1.79%.

³⁶ Iron: Guaranteed, 0.75%; found, 1.80%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|--|--|-------------------|
| <u>LOFT'S PEDIGREED SEED CO.,</u>
Bound Brook, N. J. | | |
| 9137 | Loft's for Turf 10-6-4 50% Organic Nitrogen | Brookfield |
| 9025 | Loft's Weed & Feed 20-10-5 | West Haven |
| <u>LUZERNE FERTILIZER CO.,</u>
Nescopeck, Pa. | | |
| 9164 | Luzerne All Purpose Plant Food 5-10-5 | West Haven |
| 9168 | Luzerne Lawn Food 10-6-4 | West Haven |
| <u>THE MAMLON CO.,</u> New Haven, Conn. | | |
| 9376 | Fer-Mel General Purpose Plant Food 18-18-18 | Portland |
| 9181 | Fer-Mel 25-12-10 Lawn Food | Guilford |
| 9375 | Fer-Mel Water Soluble Turf & Tree Food 24-12-12 | Wethersfield |
| <u>McARDLE'S SEED CO.,</u>
Greenwich, Conn. | | |
| 9398 | McArdle's 10-6-4 | Greenwich |
| <u>MILLER CHEMICAL & FERTILIZER CORP.,</u> Baltimore 15, Md. | | |
| 9029 ^{37,38} | Miller Azalea Food Contains Chelated Iron 8-8-8 | Kensington |
| 9315 ^{39,40,41,42,43,44,45,46} | Miller Mico-Organic Mineralized Plant Food 5-5-0 | Rockville |
| 9030 | Miller 10-6-4 Plus 3 | Kensington |

~~~~~ Indicates deficiencies.

<sup>37</sup> Manganese: Guaranteed, 0.15%; found, 0.105%.

<sup>38</sup> Iron: Guaranteed, 0.036%; found, 0.310%.

<sup>39</sup> Calcium: Guaranteed, 1.00%; found, 5.86%.

<sup>40</sup> Magnesium: Guaranteed, 0.50%; found, 0.93%.

<sup>41</sup> Manganese: Guaranteed, 0.05%; found, 0.055%.

TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total |

|      |      |       |      |             |      |      |             |      |      |
|------|------|-------|------|-------------|------|------|-------------|------|------|
| 0.96 | 4.16 | 2.32  | 2.16 | <u>9.60</u> | 0.26 | 7.78 | 7.52        | 4.14 | 4.55 |
| 0.20 | 3.36 | 17.44 | 0.12 | 21.12       | 0.20 | 9.30 | <u>9.10</u> | 6.42 | 6.42 |

|      |      |      |      |       |      |       |       |      |      |
|------|------|------|------|-------|------|-------|-------|------|------|
| 1.10 | 3.36 | 0.64 | 0.14 | 5.24  | 0.39 | 10.67 | 10.28 | 4.73 | 5.13 |
| 1.68 | 8.24 | 0.00 | 0.08 | 10.00 | 0.15 | 6.42  | 6.27  | 3.82 | 4.39 |

|      |      |       |      |       |      |       |              |       |       |
|------|------|-------|------|-------|------|-------|--------------|-------|-------|
| 2.08 | 6.08 | 10.56 | 0.00 | 18.72 | 0.00 | 19.03 | 19.03        | 16.97 | 18.46 |
| 0.00 | 4.48 | 21.12 | 0.00 | 25.60 | 0.25 | 11.00 | <u>10.75</u> | 9.12  | 10.48 |

|      |      |       |      |       |      |       |       |       |       |
|------|------|-------|------|-------|------|-------|-------|-------|-------|
| 0.00 | 6.08 | 22.24 | 0.08 | 28.40 | 0.03 | 16.04 | 16.01 | 13.91 | 13.91 |
|------|------|-------|------|-------|------|-------|-------|-------|-------|

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 0.00 | 4.72 | 5.20 | 1.16 | 11.08 | 0.30 | 6.30 | 6.00 | 3.28 | 4.24 |
|------|------|------|------|-------|------|------|------|------|------|

|      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|
| 0.78 | 6.64 | 0.40 | 0.22 | 8.04 | 0.31 | 8.20 | 7.89 | 8.42 | 8.42 |
|------|------|------|------|------|------|------|------|------|------|

|      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|-------|------|------|------|------|------|
| 0.00 | 3.04 | 0.00 | 1.96 | 5.00  | .... | 5.41 | .... | .... | .... |
| 0.32 | 6.80 | 2.54 | 0.90 | 10.56 | 0.23 | 6.52 | 6.29 | 4.33 | 4.33 |

<sup>42</sup> Boron: Guaranteed, 0.02%; found, 0.041%.

<sup>43</sup> Copper: Guaranteed, 0.05%; found, 0.152%.

<sup>44</sup> Iron: Guaranteed, 0.10%; found, 1.51%.

<sup>45</sup> Zinc: Guaranteed, 0.05%; found, 0.25%.

<sup>46</sup> Sulfur: Guaranteed, 1.00%; found, 1.41%.



TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                               | Manufacturer and brand                                | Place of Sampling |
|---------------------------------------------------------------------------|-------------------------------------------------------|-------------------|
| <u>NATURAL DEVELOPMENT CO.,</u><br>Perry Hall, Md.                        |                                                       |                   |
| 9576                                                                      | Fertrell, Super 3-2-3                                 | Ridgefield        |
| <u>OLD DEERFIELD FERTILIZER CO.,</u><br>South Deerfield, Mass.            |                                                       |                   |
| 9023                                                                      | Deerfield Lawn Food 10-6-4                            | Milford           |
| 9117                                                                      | Deerfield Plant Food 5-10-5                           | Middletown        |
| <u>OLD FOX AGRICULTURAL SALES,</u><br><u>INC., East Providence, R. I.</u> |                                                       |                   |
| 9491                                                                      | Green Lawn Fertilizer 8-6-4                           | Putnam            |
| 9506                                                                      | Old Fox Fertilizer 0-15-30                            | Danielson         |
| 9128 <sup>1,47</sup>                                                      | Old Fox Fertilizer 0-15-30                            | Newtown           |
| 9486 <sup>1</sup>                                                         | Old Fox Fertilizer 0-15-30 (20 Lbs.<br>Borax to Ton)  | Storrs            |
| 9490                                                                      | Old Fox Fertilizer 0-20-20                            | Putnam            |
| 9492                                                                      | Old Fox Fertilizer 5-10-5                             | Putnam            |
| 9208 <sup>1</sup>                                                         | Old Fox Fertilizer 5-10-10                            | Niantic           |
| 9488                                                                      | Old Fox Fertilizer 5-10-10                            | Putnam            |
| 9487 <sup>1</sup>                                                         | Old Fox Fertilizer 5-10-10                            | Storrs            |
| 9550 <sup>48</sup>                                                        | Old Fox Fertilizer 5-10-10-2                          | Hazardville       |
| 9758                                                                      | Old Fox Fertilizer 6-3-6                              | Hazardville       |
| 9543 <sup>49</sup>                                                        | Old Fox Fertilizer 6-3-6-2                            | Hazardville       |
| 9549 <sup>50</sup>                                                        | Old Fox Fertilizer 6-8-8-2                            | Hazardville       |
| 9546                                                                      | Old Fox Fertilizer 8-6-4                              | Hazardville       |
| 9551 <sup>51</sup>                                                        | Old Fox Fertilizer 8-10-10-2                          | Hazardville       |
| 9070 <sup>1</sup>                                                         | Old Fox 10-6-4                                        | New Haven         |
| 9161 <sup>1</sup>                                                         | Old Fox 10-6-4                                        | New Britain       |
| 9347 <sup>1</sup>                                                         | Old Fox Fertilizer 10-10-10 (10 Lbs.<br>Borax to Ton) | Mansfield Depot   |

~~~~~ Indicates deficiencies.

¹ State purchase.

⁴⁷ Boron: Guaranteed, 0.10%; found, 0.18%.

⁴⁸ Magnesium: Guaranteed, 1.20%; found, 1.83%.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|-------------|------------------------------|-------|--------------------------|---------------------|--------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.00 | 0.00 | 0.20 | 2.80 | 3.00 | 3.74 | 5.60 | 1.86 | 0.41 | 3.83 |
| 0.24 | 7.44 | 2.40 | 0.00 | 10.08 | 0.15 | 6.38 | 6.23 | 3.24 | 4.15 |
| 0.00 | 4.40 | 1.68 | 0.32 | 6.40 | 0.39 | 9.82 | <u>9.43</u> | 5.66 | 6.04 |
| 0.14 | 7.28 | 0.64 | 0.14 | 8.20 | 0.05 | 6.13 | 6.08 | 2.51 | 4.00 |
| .... | .... | .... | .... | .... | 0.09 | 19.36 | 19.27 | 21.79 | <u>23.14</u> |
| .... | .... | .... | .... | .... | 0.21 | 15.00 | <u>14.79</u> | 28.36 | 31.28 |
| .... | .... | .... | .... | .... | 0.25 | 14.63 | <u>14.38</u> | 30.02 | 30.76 |
| .... | .... | .... | .... | .... | 0.03 | 11.90 | <u>11.87</u> | 23.42 | 25.24 |
| 0.64 | 4.08 | 0.40 | 0.00 | 5.12 | 0.43 | 11.15 | 10.72 | 5.52 | 10.34 |
| 0.84 | 4.16 | 0.24 | 0.00 | 5.24 | 0.23 | 11.10 | 10.87 | 9.53 | 10.18 |
| 0.88 | 4.32 | 0.08 | 0.00 | 5.28 | 0.56 | 11.10 | 10.44 | 8.79 | 10.32 |
| 1.04 | 4.24 | 0.00 | 0.00 | 5.28 | 0.19 | 11.33 | 11.14 | 10.49 | 10.49 |
| 0.96 | 4.40 | 0.16 | 0.00 | 5.52 | 0.19 | 10.44 | 10.25 | 9.20 | 10.18 |
| 0.00 | 1.12 | 2.26 | 2.28 | <u>5.66</u> | 0.19 | 5.65 | 5.46 | 0.42 | 6.43 |
| 0.34 | 0.88 | 2.16 | 2.62 | <u>6.00</u> | 0.17 | 3.50 | 3.33 | 5.07 | 6.49 |
| 0.88 | 5.36 | 0.24 | 0.00 | 6.48 | 0.39 | 8.47 | 8.08 | 6.00 | 8.16 |
| 0.36 | 4.32 | 0.40 | 2.68 | <u>7.76</u> | 0.29 | 6.96 | 6.67 | 3.13 | 4.63 |
| 0.96 | 6.64 | 0.00 | 0.40 | <u>8.00</u> | 0.29 | 10.10 | 9.91 | 6.21 | 10.86 |
| 0.30 | 4.48 | 2.53 | 2.42 | <u>9.52</u> | 0.35 | 6.40 | 6.05 | 3.04 | 4.39 |
| 0.28 | 4.64 | 2.64 | 2.44 | 10.00 | 0.32 | 6.10 | <u>5.78</u> | 4.40 | 4.43 |
| 1.84 | 7.92 | 0.32 | 0.00 | 10.08 | 0.13 | 10.41 | 10.28 | 9.18 | 10.45 |

⁴⁹ Magnesium: Guaranteed, 1.20%; found, 4.54%.

⁵⁰ Magnesium: Guaranteed, 1.20%; found, 2.42%.

⁵¹ Magnesium: Guaranteed, 1.20%; found, 1.96%.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|--|---|-------------------|
| 9503 | Old Fox Fertilizer 10-10-10 | Danielson |
| 9540 ¹ | Old Fox Fertilizer 10-10-10 | Enfield |
| 9759 | Old Fox Fertilizer 15-10-10 | Hazardville |
| 9489 | Old Fox Garden Food 5-10-5 | Putnam |
| 9760 | Old Fox No Pest Turf Food 8-6-2 | Hazardville |
| 9504 | Old Fox Turf Food 8-6-2 | Danielson |
| 9545 | Old Fox Turf Food & Crab Control | Hazardville |
| 9797 | Old Fox Turf Food 10-6-4 | Willimantic |
| <u>OLIN MATHIESON CHEMICAL CORP.,</u>
Little Rock, Ark. | | |
| 9426 | Mathieson Ammo-Phos with Potash
13-13-13 | Glenbrook |
| 9427 | Mathieson 5-10-5 Pelleted Fertilizer | Glenbrook |
| <u>LEE PATTEN SEED CO.,</u>
Jersey City, N. J. | | |
| 9471 | Patco's Allganic 4-6-2 | Norwich |
| 9473 | Patco's Combo 10-6-4 with 2, 4-D,
Plus 2, 4, 5-T | Norwich |
| 9472 | Patco' Featherweight 20-10-5 | Norwich |
| 9239 | Patco's Lawn Food 9-8-3 | Manchester |
| <u>PENNSYLVANIA DUTCH FERTILIZER</u>
<u>CO., Lebanon, Pa.</u> | | |
| 9435 | New Turf 5-10-5 | Wethersfield |
| 9007 | New Turf 10-6-4 100% Organic Nitrogen | Stratford |
| 9040 | Pennsylvania Dutch 5-10-5 | Berlin |
| 9796 | Pennsylvania Dutch 10-6-4 | Hartford |
| <u>ROBERT B. PETERS CO., INC.,</u>
Allentown, Pa. | | |
| 9382 | Peter's Carnation Special 25-5-20 | Cromwell |
| 9378 | Peter's Easter Lily Special 16-4-12 | Portland |

TABLE 5.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-----------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 1.52 | 8.24 | 0.32 | 0.00 | 10.08 | 0.07 | 10.78 | 10.71 | 9.43 | 10.10 |
| 1.78 | 7.44 | 0.40 | 0.38 | 10.00 | 0.13 | 10.62 | 10.49 | 9.93 | 10.75 |
| 0.00 | 15.84 | 0.16 | 0.00 | 16.00 | 0.05 | 9.10 | 2.05 | 4.76 | 6.56 |
| 0.92 | 4.32 | 0.00 | 0.00 | 5.24 | 0.62 | 10.88 | 10.26 | 7.04 | 8.28 |
| 1.24 | 3.52 | 2.24 | 1.36 | 8.36 | 0.39 | 7.52 | 7.13 | 2.35 | 2.84 |
| 0.66 | 4.64 | 1.20 | 1.50 | 8.00 | 0.30 | 6.37 | 6.07 | 2.19 | 2.55 |
| 0.24 | 6.00 | 0.48 | 1.28 | 8.00 | 0.34 | 6.39 | 6.05 | 2.49 | 3.49 |
| 0.00 | 4.24 | 2.00 | 5.34 | 11.58 | 0.30 | 6.50 | 6.20 | 3.97 | 4.22 |
| | | | | | | | | | |
| 0.00 | 12.72 | 0.24 | 0.28 | 13.24 | 0.12 | 13.01 | 12.89 | 13.08 | 13.41 |
| 1.14 | 3.60 | 0.16 | 0.10 | 5.00 | 0.22 | 11.08 | 10.86 | 5.09 | 5.47 |
| | | | | | | | | | |
| 0.00 | 0.24 | 0.40 | 3.84 | 4.48 | 0.41 | 6.55 | 6.14 | 2.47 | 3.00 |
| 0.78 | 4.56 | 2.00 | 3.06 | 10.40 | 0.45 | 7.18 | 6.73 | 5.25 | 5.45 |
| 0.00 | 5.12 | 11.80 | 3.88 | 20.80 | 0.43 | 12.23 | 11.80 | 4.45 | 4.45 |
| 0.82 | 4.48 | 2.24 | 1.46 | 9.00 | 0.55 | 8.23 | 7.68 | 2.91 | 3.25 |
| | | | | | | | | | |
| 1.54 | 3.60 | 0.08 | 0.10 | 5.32 | 0.22 | 10.43 | 10.21 | 4.23 | 4.46 |
| 0.58 | 1.68 | 6.48 | 1.26 | 10.00 | 0.13 | 7.29 | 7.16 | 2.03 | 4.08 |
| 1.28 | 3.20 | 0.40 | 0.12 | 5.00 | 0.21 | 10.20 | 9.99 | 5.57 | 5.80 |
| 1.54 | 8.16 | 0.16 | 0.14 | 10.00 | 0.21 | 6.66 | 6.45 | 3.33 | 4.71 |
| | | | | | | | | | |
| 5.28 | 1.76 | 19.20 | 0.00 | 26.24 | 0.00 | 5.81 | 5.81 | 2.14 | 20.35 |
| 6.80 | 1.60 | 10.88 | 0.00 | 19.28 | 0.02 | 6.30 | 6.28 | 11.87 | 14.38 |

¹ State purchase.

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|--|--|-------------------|
| 9379 | Peter's General Purpose 20-20-20 | Portland |
| 9377 | Peter's Geranium Special 15-15-15 | Portland |
| 9774 | Peter's Maryland Special 25-10-10 | Portland |
| 9384 | Peter's Pot Mum Special 15-10-30 | Cromwell |
| <u>PERK-UP PRODUCTS CO.,</u>
South Deerfield, Mass. | | |
| 8996 | Perk-Up Lawn Food 10-6-4 | Wallingford |
| 9357 | Perk-Up New Light Weight 20-10-5
Lawn Food | Bridgeport |
| 9022 | Perk-Up Plant Food 5-10-5 | Milford |
| <u>FRANK S. PLATT CO.,</u>
Branford, Conn. | | |
| 9166 | Platt's Hi-Organic Lawn Fertilizer
10-5-5 | West Haven |
| <u>FRANK POLICASTRO & SONS, INC.,</u>
Glenbrook, Conn. | | |
| 9428 | Policastro's Blue Chip Turf & Tree
Food (75% Organic Nitrogen) 10-5-5 | Glenbrook |
| <u>RENZULLI BROTHERS GARDEN</u>
<u>CENTER, Norwalk, Conn.</u> | | |
| 9072 | Renzulli Brothers 10-6-4 Lawn Food | Norwalk |
| <u>O. M. SCOTT & SONS CO.,</u>
Marysville, Ohio | | |
| 9186 | Dawn 16-11-13 | Centerbrook |
| 9058 | Turf Builder 20-10-5 | Plainville |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |       | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |             |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total       |
| 0.64                  | 4.16       | 15.52                     | 0.00                | 20.32 | 0.00                         | 20.02 | 20.02                    | 17.09               | 20.68       |
| 7.84                  | 3.36       | 5.54                      | 0.00                | 16.64 | 0.02                         | 17.14 | 17.12                    | ....                | 15.75       |
| 0.64                  | 2.88       | 28.64                     | 0.00                | 32.16 | 0.02                         | 10.36 | 10.34                    | 4.94                | 10.58       |
| 9.28                  | 2.08       | 3.84                      | 0.00                | 15.20 | 0.00                         | 10.77 | 10.77                    | ....                | 31.42       |
| 0.00                  | 7.84       | 2.40                      | 0.00                | 10.24 | 0.19                         | 6.57  | 6.38                     | 3.93                | 4.30        |
| 0.00                  | 4.96       | 15.64                     | 0.20                | 20.80 | 0.62                         | 11.61 | 10.99                    | 4.28                | 5.45        |
| 0.16                  | 3.60       | 1.44                      | 0.12                | 5.32  | 0.43                         | 10.67 | 10.24                    | 5.00                | 5.31        |
| 0.34                  | 5.76       | 3.44                      | 0.78                | 10.32 | 0.23                         | 5.83  | 5.60                     | 5.07                | 5.22        |
| 0.28                  | 3.04       | 2.16                      | 4.52                | 10.00 | 0.38                         | 5.50  | 5.12                     | 4.18                | <u>4.68</u> |
| 0.00                  | 6.32       | 2.08                      | 1.62                | 10.02 | 0.49                         | 6.48  | 5.99                     | 4.11                | 4.39        |
| 0.00                  | 1.44       | 10.96                     | 3.78                | 16.18 | 0.35                         | 11.40 | 11.05                    | 13.02               | 13.43       |
| 0.00                  | 1.12       | 13.00                     | 6.84                | 20.96 | 0.50                         | 9.82  | <u>9.32</u>              | 3.82                | 5.19        |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                  | Analyses of Mixed Fertilizers                                  |                   |
|--------------------------------------------------------------|----------------------------------------------------------------|-------------------|
|                                                              | Manufacturer and brand                                         | Place of Sampling |
| <u>SEARS, ROEBUCK &amp; CO.,</u><br>Chicago 7, Ill.          |                                                                |                   |
| 8984                                                         | Cross Country Hi-Organic 10-6-4                                | Hamden            |
| 9212                                                         | Cross Country Lawn Quick Green<br>10-6-4                       | New London        |
| 9517                                                         | Cross Country Merion Bluegrass Lawn<br>Food 20-10-5            | Portland          |
| 9211                                                         | Cross Country Organic Lawn Food 5-5-0                          | New London        |
| 9728                                                         | Cross Country Organic Lawn Food<br>with Crabgrass Killer 5-5-5 | W. Hartford       |
| 8985                                                         | Cross Country Plant Food 5-10-5                                | Hamden            |
| 9213                                                         | Cross Country Superfine Lawn Food                              | New London        |
| 9726                                                         | Economy Fertilizer 5-10-5                                      | W. Hartford       |
| 9727                                                         | Weed Killer in Organic Lawn Food 5-4-0                         | W. Hartford       |
| <u>STOP &amp; SHOP SUPER MARKETS,</u><br>North Haven, Conn.  |                                                                |                   |
| 9415                                                         | Green Carpet Lawn Food 12-5-7                                  | Stamford          |
| 9414                                                         | Green Carpet Plant Food 8-12-6                                 | Stamford          |
| <u>SWIFT &amp; CO., Agrichem Div.,</u><br>New Haven 5, Conn. |                                                                |                   |
| 8979                                                         | All Purpose Vigoro 6-10-4                                      | Hamden            |
| 8978                                                         | Golden Vigoro 12-5-7                                           | Hamden            |
| 9814                                                         | Golden Vigoro Lawn Food with<br>End-O-Pest 12-5-7              | E. Hartford       |
| 9817                                                         | Pink Vigoro 8-12-6                                             | E. Hartford       |
| 9043                                                         | Vigoro Azalea & Camellia Food 8-16-16                          | Wilson            |
| 8995                                                         | Vigoro Lawn Weeder & Feeder 12-5-7                             | Wallingford       |
| 9815                                                         | Vitogro for Grass 16-8-4                                       | E. Hartford       |
| 9012                                                         | Vitogro Garden Grower 6-10-4                                   | Milford           |
| 9816                                                         | Vitogro Lawn Pest Control Plus Plant<br>Food 16-8-4            | E. Hartford       |
| 9459                                                         | Swift's Red Steer Brand Semi-Granular<br>Plant Food 5-10-5     | Middletown        |

~~~~~ Indicates deficiencies.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.22 | 4.64 | 4.08 | 1.38 | 10.32 | 0.43 | 6.56 | 6.13 | 4.27 | 4.27 |
| 0.00 | 8.24 | 2.32 | 0.00 | 10.56 | 0.13 | 6.37 | 6.24 | 4.30 | 4.57 |
| 0.00 | 5.76 | 11.52 | 4.40 | 21.68 | 0.29 | 11.75 | 11.46 | 3.28 | 5.58 |
| 0.00 | 0.00 | 0.32 | 4.78 | 5.10 | 0.85 | 7.30 | 6.45 | .... | .... |
| 0.00 | 0.32 | 0.80 | 4.32 | 5.44 | 0.57 | 5.20 | 4.63 | .... | .... |
| 0.26 | 3.44 | 1.44 | 0.22 | 5.36 | 0.30 | 10.86 | 10.56 | 4.82 | 5.22 |
| 1.84 | 8.16 | 0.40 | 0.10 | 10.50 | 0.24 | 10.52 | 10.28 | 9.63 | 10.03 |
| 0.00 | 3.60 | 1.80 | 0.12 | 5.52 | 0.36 | 10.42 | 10.06 | 4.80 | 5.75 |
| 0.14 | 0.80 | 0.40 | 4.18 | 5.52 | 0.70 | 6.68 | 5.98 | .... | .... |
| 0.16 | 8.56 | 1.20 | 0.56 | 10.48 | 0.18 | 6.69 | 6.51 | 5.51 | 7.02 |
| 1.12 | 5.92 | 0.40 | 0.56 | 8.00 | 1.18 | 13.10 | 11.92 | 6.30 | 6.30 |
| 0.50 | 5.12 | 0.48 | 0.10 | 6.20 | 0.43 | 10.48 | 10.05 | 4.03 | 4.62 |
| 0.32 | 1.20 | 6.16 | 4.40 | 12.08 | 0.59 | 5.66 | 5.07 | 0.53 | 7.44 |
| 0.18 | 1.28 | 6.56 | 4.54 | 12.56 | 0.78 | 6.03 | 5.25 | 0.75 | 7.08 |
| 0.90 | 6.64 | 0.48 | 0.30 | 8.32 | 0.73 | 12.80 | 12.07 | 5.13 | 6.05 |
| 0.18 | 5.60 | 2.08 | 0.16 | 8.02 | 0.65 | 17.46 | 16.81 | 16.68 | 16.68 |
| 0.00 | 1.04 | 7.68 | 3.42 | 12.14 | 0.89 | 5.90 | 5.01 | 0.61 | 7.10 |
| 0.60 | 2.08 | 6.96 | 6.60 | 16.24 | 0.52 | 8.60 | 8.08 | 0.63 | 4.65 |
| 0.82 | 5.36 | 0.00 | 0.10 | 6.28 | 0.39 | 10.41 | 10.02 | 4.10 | 4.39 |
| 0.44 | 2.00 | 6.64 | 7.00 | 16.08 | 0.72 | 8.40 | 7.68 | 0.34 | 4.26 |
| 0.26 | 4.64 | 0.16 | 0.10 | 5.16 | 0.71 | 10.90 | 10.19 | 6.10 | 6.59 |

TABLE 5.
ANALYSES OF MIXED FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|--|--|-------------------|
| <u>L. TEWELES SEED CO.,</u>
Milwaukee 1, Wis. | | |
| 9788 | Teweles Lawn Fertilizer 20-10-5 | Waterbury |
| <u>UNIVERSAL CHEMICAL CO.,</u>
West Lynn, Mass. | | |
| 9047 | Electra Plant Food 5-10-3 | Hartford |
| 9045 | Triple 20 (A Complete Soluble All Purpose Plant Food) 20-20-20 | Hartford |
| <u>VALLEY FEED & SUPPLY CO., INC.,</u>
Spring Valley, N. Y. | | |
| 9367 | Adorna 3-1-1 | Bridgeport |
| <u>VALU-GRO CORP.,</u> Princeton, N. J. | | |
| 9233 | Union 5-10-5 Fertilizer | Ledyard |
| 9450 | Union 5-10-5 Fertilizer | Wethersfield |
| 9449 | Union Fertilizer 10-6-4 | Wethersfield |
| 9232 | Valu-Gro All Purpose 10-6-4 | Ledyard |
| <u>VAUGHAN'S SEED CO.,</u>
Downers Grove, Ill. | | |
| 9374 | Vaughan's One Shot Lawn Food 20-5-5 | Greenwich |
| 9416 | Vaughan's 100% Organic Fertilizer 5-5-0 | Darien |
| <u>WESTERN AUTO SUPPLY,</u>
Kansas City, Mo. | | |
| 9369 | Western Auto Revelation 20-10-5 | Bridgeport |
| 9368 | Western Auto Revelation Weed & Feed 20-10-5 2, 4-D | Bridgeport |

~~~~~ Indicates deficiencies.

TABLE 5.  
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,<br>per cent |            |                           |                     |              | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |       |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total        | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total |
| 0.32                  | 3.04       | 13.44                     | 0.00                | <u>16.80</u> | 0.63                         | 10.70 | 10.07                    | 5.65                | 6.44  |
| 0.28                  | 2.32       | 0.48                      | 2.24                | 5.32         | 0.25                         | 10.04 | 9.79                     | 3.26                | 3.32  |
| 6.86                  | 9.60       | 3.04                      | 0.00                | <u>19.50</u> | 0.00                         | 20.15 | 20.15                    | ....                | 20.80 |
| 0.00                  | 0.00       | 0.48                      | 3.48                | 3.96         | 4.63                         | 7.90  | 3.27                     | 0.35                | 1.32  |
| 0.70                  | 3.60       | 0.64                      | 0.14                | 5.08         | 0.48                         | 10.70 | 10.22                    | 4.92                | 5.18  |
| 0.68                  | 4.32       | 0.56                      | 0.12                | 5.68         | 0.20                         | 10.37 | 10.17                    | 4.88                | 5.42  |
| 0.56                  | 8.32       | 0.40                      | 0.24                | <u>9.52</u>  | 0.53                         | 7.43  | 6.90                     | 4.30                | 4.31  |
| 0.63                  | 8.48       | 0.40                      | 0.09                | <u>9.60</u>  | 0.14                         | 6.80  | 6.66                     | 4.41                | 4.57  |
| 0.40                  | 4.80       | 8.16                      | 6.96                | 20.32        | 0.39                         | 5.46  | 5.07                     | 5.33                | 5.33  |
| 0.00                  | 0.16       | 0.24                      | 5.20                | 5.60         | 1.02                         | 6.92  | 5.90                     | ....                | ....  |
| 0.32                  | 3.20       | 15.20                     | 0.00                | <u>18.72</u> | 0.32                         | 10.70 | 10.38                    | 3.57                | 5.07  |
| 0.00                  | 3.04       | 20.48                     | 0.00                | 23.52        | 0.09                         | 10.25 | 10.16                    | 4.60                | 5.02  |

TABLE 5.  
ANALYSES OF MIXED FERTILIZERS

| Station No.                                                                              | Manufacturer and brand                                  | Place of Sampling |
|------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------|
| <u>WHITNEY SEED CO., INC.,</u><br>Buffalo 5, N. Y.                                       |                                                         |                   |
| 9783                                                                                     | Whitney Vital Brand Lawn Fertilizer<br>20-10-5          | New Milford       |
| <u>GARFIELD WILLIAMSON, INC.,</u><br>Jersey City 6, N. J.                                |                                                         |                   |
| 9362                                                                                     | Wonderlawn All in One 100% Organic<br>Nitrogen 10-6-4   | Bridgeport        |
| 9363                                                                                     | Wonderlawn Lawn Food 10-6-4                             | Bridgeport        |
| 9356                                                                                     | Wonderlawn Turf Culture Lawn Food<br>20-10-5            | Bridgeport        |
| <u>ANDREW WILSON, INC.,</u><br>Springfield, N. J.                                        |                                                         |                   |
| 9395                                                                                     | Wilson's Eureka Greenhouse &<br>Garden Plant Food 4-8-5 | Greenwich         |
| <u>S. D. WOODRUFF &amp; SONS OF</u><br><u>WETHERSFIELD, INC.,</u><br>Wethersfield, Conn. |                                                         |                   |
| 9115                                                                                     | Woodruff's Tuf Turf Lawn Fertilizer                     | North Haven       |
| 9431                                                                                     | Woodruff's Tuf Turf Turf Food<br>10-6-4                 | Glenbrook         |
| 9440                                                                                     | Woodruff's Tuf Turf Two-for-One 10-6-4                  | Wethersfield      |

~~~~~ Indicates deficiencies.

TABLE 5.
CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

| Nitrogen,
per cent | | | | | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.32 | 5.28 | 10.88 | 4.00 | 20.48 | 0.59 | 13.20 | 12.61 | 3.86 | 5.46 |
| 0.00 | 4.56 | 5.60 | 1.92 | 12.08 | 0.21 | 8.07 | 7.86 | 3.58 | <u>3.77</u> |
| 0.54 | 5.28 | 2.80 | 0.58 | 9.20 | 0.41 | 7.08 | 6.67 | 3.44 | 4.10 |
| 1.78 | 5.12 | 9.60 | 3.36 | <u>19.86</u> | 0.51 | 14.70 | 14.19 | 5.02 | 5.02 |
| 0.44 | 1.68 | 0.48 | 2.08 | 4.68 | 0.27 | 7.30 | <u>7.03</u> | 5.66 | 5.66 |
| 0.52 | 6.08 | 11.68 | 3.16 | 21.44 | 0.70 | 10.74 | 10.04 | 5.90 | 6.12 |
| 0.34 | 3.52 | 4.16 | 1.58 | <u>9.60</u> | 0.38 | 7.60 | 7.22 | 4.63 | 4.63 |
| 0.00 | 2.96 | 9.66 | 0.26 | 12.88 | 0.29 | 4.80 | <u>4.51</u> | 2.21 | <u>2.98</u> |

TABLE 6.
ANALYSES OF SHEEP MANURE, ETC.

| Station No. | Manufacturer, brand and dealer |
|-------------|---|
| 9054 | Armour Cattle Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at G. E. Madison Stores, Southington. |
| 9432 | Armour Sheep Manure and Inert Matter. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Glenbrook Lumber Yard, Glenbrook. |
| 9469 | Corenco Sheep Manure & Inert Matter. Consolidated Rendering Co., Boston 10, Mass. Sampled at Mystic Oral School, Mystic. |
| 9505 | Corenco Sheep Manure & Inert Matter. Consolidated Rendering Co., Boston 10, Mass. Sampled at Wirthmore Stores, Danielson. |
| 8878 | Fertal-Gro Cow Manure. Eastern Dehydrating Co., Lexington, N. C. Sampled at Cullman Brothers, Inc., Simsbury. |
| 9411 | Fertal-Gro Dehydrated Sheep Manure. Eastern Dehydrating Co., Lexington, N. C. Sampled at Leon Ezzell, Inc., Stamford. |
| 8997 | Hoffman Dehydrated Cow Manure. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Barkers, Inc., Wallingford. |
| 9419 | Hoffman Sheep Manure Dehydrated. A. H. Hoffman, Inc., Landisville, Pa. Sampled at Ring's End Fuel Co., Darien. |
| 9063 | HH Cow Manure. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Bristol Nurseries, Inc., Bristol. |
| 9532 | HH Sheep Manure. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard-Hall Chemical Co., Portland. |

~~~~~ Indicates deficiencies.

TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Nitrogen,<br>per cent |                  | Phosphoric acid,<br>per cent |             |                  |                             | Potash,<br>per cent |                  | Sand, per cent |
|-----------------------|------------------|------------------------------|-------------|------------------|-----------------------------|---------------------|------------------|----------------|
| Total found           | Total guaranteed | Citrate-insoluble            | Total found | Total guaranteed | So-called "available" found | Total found         | Total guaranteed |                |
| 2.32                  | 2.00             | 0.26                         | 1.30        | ....             | 1.04 <sup>1</sup>           | 5.32                | 2.00             | 11.13          |
| 2.24                  | 1.25             | 0.28                         | 1.29        | 1.00             | 1.01                        | 2.81                | 2.00             | 30.06          |
| 1.64                  | 1.25             | 0.29                         | 1.62        | 1.00             | 1.33                        | 2.68                | 2.00             | 24.46          |
| 1.68                  | 1.25             | 0.25                         | 1.68        | 1.00             | 1.43                        | 2.78                | 2.00             | 18.52          |
| <u>1.66</u>           | 2.00             | 0.27                         | 1.20        | ....             | 0.93 <sup>1</sup>           | 8.58                | 7.00             | 9.06           |
| <u>1.80</u>           | 2.00             | 0.42                         | 1.50        | ....             | 1.08 <sup>1</sup>           | 9.18                | 5.00             | 3.61           |
| 2.24                  | 2.00             | 0.16                         | 1.54        | ....             | 1.38 <sup>1</sup>           | 2.63                | 1.00             | 1.66           |
| 2.12                  | 1.00             | 0.19                         | 1.45        | ....             | 1.26 <sup>1</sup>           | 4.03                | 2.00             | 12.88          |
| 2.00                  | 1.50             | 0.26                         | 1.47        | ....             | 1.21 <sup>1</sup>           | 2.82                | 1.00             | 16.21          |
| 1.84                  | 1.25             | 0.27                         | 1.73        | ....             | 1.46 <sup>1</sup>           | 2.67                | 1.00             | 19.58          |

<sup>1</sup> Guaranteed, 1.00%.

TABLE 6.  
ANALYSES OF SHEEP MANURE, ETC.

| Station No. | Manufacturer, brand and dealer                                                                                              |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|
| 9182        | McNair's Organic Dehydrated Cow Manure. McNair Farms, Laurinburg, N. C. Sampled at Fonicetto Garden Center, Guilford.       |
| 9588        | Longhorn Brand Cattle Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.  |
| 9587        | Ramshorn Brand Sheep Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.   |
| 8994        | Fertie Composted Cow Manure. Organic Compost Corp. of Penna., Oxford, Pa. Sampled at Star's, Wallingford.                   |
| 9179        | Fertie Composted Cow Manure. Organic Compost Corp. of Penna., Oxford, Pa. Sampled at J. M. Fields, Branford.                |
| 9096        | Gardener's Sheep Manure Compost. Organic Compost Corp. of Penna., Oxford, Pa. Sampled at A & P Food Stores, Norwalk.        |
| 8983        | Cross County Organic Sheep Manure Compost. Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.     |
| 9366        | Queen Turf Composted Poultry Manure. T.G.F.H.. Garfield, N. J. Sampled at King Cole Stores of Bridgeport, Inc., Bridgeport. |
| 9518        | Bovung. Walker-Gordon Laboratory Co., Plainsboro, N. J. Sampled at The Hubbard-Hall Chemical Co., Portland.                 |

~~~~~ Indicates deficiencies.

¹ Guaranteed, 1.00%.

TABLE 6.
ANALYSES OF SHEEP MANURE, ETC.

| Nitrogen,
per cent | | Phosphoric acid,
per cent | | | | Potash,
per cent | | Sand,
per cent |
|-----------------------|---------------------|------------------------------|-------------|---------------------|-----------------------------------|---------------------|---------------------|-------------------|
| Total found | Total
guaranteed | Citrate-
insoluble | Total found | Total
guaranteed | So-called
"available"
found | Total found | Total
guaranteed | |
| 2.12 | 2.00 | 0.21 | 1.38 | .... | 1.17 ¹ | 3.35 | 2.00 | 12.29 |
| 2.00 | 2.00 | 0.26 | 1.10 | .... | 0.84 ¹ | <u>1.68</u> | 2.00 | 25.66 |
| 2.04 | 2.00 | 0.25 | 1.09 | .... | 0.84 ¹ | 2.49 | 2.00 | 12.99 |
| 1.52 | 1.00 | 0.47 | 1.53 | .... | 1.06 ¹ | 1.58 | 1.00 | 47.56 |
| 1.32 | 1.00 | .... | 1.22 | 1.00 | .... | 1.58 | 1.00 | 49.03 |
| 1.48 | 0.50 | .... | 1.89 | 0.50 | .... | 1.70 | 0.50 | 45.21 |
| 1.28 | 0.50 | .... | 1.45 | 0.50 | .... | 1.68 | 0.50 | 49.73 |
| 0.56 | 0.50 | 0.25 | 1.60 | .... | 1.35 ² | 1.50 | 0.50 | 51.46 |
| 2.00 | 2.00 | 0.15 | 1.47 | .... | 1.32 ³ | 2.52 | 2.00 | 1.76 |

² Guaranteed, 0.50%.³ Guaranteed, 1.00%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|-------------|------------------------|-------------------|
|-------------|------------------------|-------------------|

AGRICULTURAL PRODUCTS CO.,
INC., Providence, R. I.

| | | |
|-------------------|------------------------------------|-------------|
| 9105 | APCO All Purpose Plant Food 5-10-5 | New Haven |
| 9151 ¹ | APCO Ground Bone Meal | Meriden |
| 9158 | APCO Rose Food 5-12-4 | New Britain |

AMERICAN AGRICULTURAL CHEMI-
CAL CO., North Weymouth 91, Mass.

| | | |
|------|---------------------------|---------|
| 9098 | Homestead Rose Food 5-9-6 | Norwalk |
|------|---------------------------|---------|

ATLAS FISH FERTILIZER CO.,
San Francisco, Cal.

| | | |
|------|--------------------------------------|--------|
| 8992 | Atlas Fish Emulsion Fertilizer 5-1-1 | Hamden |
|------|--------------------------------------|--------|

BLACK MAGIC, INC.,
Hermosa Beach, Cal.

| | | |
|------|---|----------|
| 8973 | Black Magic African Violet Blossom
Booster 4-10-10 | Cheshire |
|------|---|----------|

BOYLE-MIDWAY, INC.,
Cranford, N. J.

| | | |
|------|---------------------|-------------|
| 9159 | Heller-Gro 15-15-15 | New Britain |
|------|---------------------|-------------|

CALIFORNIA CHEMICAL CO.,
Ortho Div., Richmond, Cal.

| | | |
|------|------------------------------------|--------------|
| 9203 | Ortho-Gro Liquid Plant Food 15-5-5 | Centerbrook |
| 9451 | Ortho Liquid Rose Food 8-12-4 | Wethersfield |

CLINTON NURSERY PRODUCTS, INC.,
Clinton, Conn.

| | | |
|------|---|------------|
| 8968 | New Era All Purpose Plant Food 7-15-8 | Bridgeport |
| 9102 | New Era Liquid African Violet Food | Norwalk |
| 9101 | New Era Liquid Plant Food 8-12-8 | Norwalk |
| 9014 | New Era Gro Plant Food Tablets 10-15-12 | Milford |

~~~~~ Indicates deficiencies.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,<br>per cent |            |                           |                     | Phosphoric acid,<br>per cent |                       |       |                          | Potash,<br>per cent |       |
|-----------------------|------------|---------------------------|---------------------|------------------------------|-----------------------|-------|--------------------------|---------------------|-------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total                        | Citrate-<br>insoluble | Total | So-called<br>"available" | As muriate          | Total |
| 0.00                  | 4.80       | 0.00                      | 0.20                | 5.00                         | 0.10                  | 9.35  | <del>9.25</del>          | 4.34                | 5.19  |
| ....                  | ....       | ....                      | ....                | 2.76                         | ....                  | 27.20 | ....                     | ....                | ....  |
| 0.00                  | 3.52       | 0.12                      | 1.88                | 5.52                         | 0.45                  | 10.62 | <del>10.17</del>         | 4.36                | 4.36  |
| 0.28                  | 2.40       | 1.84                      | 0.48                | 5.00                         | 0.71                  | 9.70  | 8.99                     | 5.26                | 6.38  |
| 0.00                  | 0.32       | 4.64                      | 1.20                | 6.16                         | 0.00                  | 1.40  | 1.40                     | 1.27                | 1.27  |
| 0.00                  | 0.00       | 0.00                      | 0.00                | 4.60                         | 0.00                  | 10.20 | 10.20                    | ....                | 10.40 |
| 4.36                  | 3.04       | 8.56                      | 0.00                | 15.96                        | 0.00                  | 25.42 | 25.42                    | ....                | 15.15 |
| 0.00                  | 0.88       | 14.48                     | 0.00                | 15.36                        | 0.00                  | 5.11  | 5.11                     | ....                | 5.19  |
| 0.00                  | 2.08       | 4.88                      | 0.00                | <del>6.96</del>              | 0.00                  | 12.15 | 12.15                    | ....                | 4.00  |
| 2.20                  | 3.36       | 2.08                      | 0.20                | 7.84                         | 0.12                  | 15.92 | 15.80                    | ....                | 8.22  |
| 0.00                  | 6.24       | 0.16                      | 0.00                | 6.40                         | 0.00                  | 19.12 | 19.12                    | 6.34                | 6.89  |
| 0.00                  | 4.16       | 4.56                      | 0.00                | 8.72                         | 0.00                  | 13.18 | 13.18                    | 7.83                | 8.59  |
| 3.88                  | 6.08       | 0.04                      | 0.00                | 10.00                        | 0.00                  | 16.64 | 16.64                    | ....                | 12.13 |

<sup>1</sup> Mechanical Analysis: Fine, 59.00%; coarse, 41.00%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.                                                                         | Manufacturer and brand                                   | Place of Sampling |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------|
| <u>CONSOLIDATED RENDERING CO.,</u><br>Boston, Mass.                                 |                                                          |                   |
| 9134                                                                                | Corenco Rhododendron-Azalea &<br>Blueberry Special 7-7-7 | Newtown           |
| <u>CROUCH POTTING SOIL &amp; PRODUCTS</u><br><u>CO.,</u> Norwich, Conn.             |                                                          |                   |
| 9206                                                                                | Happy Jo Liquid Concentrate Plant<br>Food 8-8-12         | Centerbrook       |
| <u>E. I. du PONT de NEMOURS &amp; CO.,</u><br>Wilmington 98, Del.                   |                                                          |                   |
| 8982                                                                                | Du Pont Azalea & Evergreen Food<br>10-5-5                | Hamden            |
| <u>EASTERN STATES FARMERS'</u><br><u>EXCHANGE, INC.,</u><br>West Springfield, Mass. |                                                          |                   |
| 9502 <sup>2,3</sup>                                                                 | Eastern States Evergreen Food 8-8-8                      | Putnam            |
| 9000 <sup>4</sup>                                                                   | Eastern States Garden Plant Food<br>5-10-10              | North Haven       |
| 8955                                                                                | Eastern States Start-N-Gro 16-32-16                      | Buckland          |
| 9767 <sup>5</sup>                                                                   | Eastern States Steamed Bone Meal                         | Bethel            |
| <u>FAESY &amp; BESTHOFF, INC.,</u><br>New York 10, N. Y.                            |                                                          |                   |
| 9184 <sup>6</sup>                                                                   | F & B Evergreen Food 7-7-7                               | Guilford          |
| <u>FIRST NATIONAL STORES, INC.,</u><br>East Hartford, Conn.                         |                                                          |                   |
| 9231                                                                                | Emerald Green Evergreen Food 4-10-4                      | New London        |

~~~~~ Indicates deficiencies.

² Magnesium: Guaranteed, 1.20%; found, 1.24%.

³ Iron: Guaranteed, 1.00%; found, 1.33%.

TABLE 7.
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,
per cent | | | | Phosphoric acid,
per cent | | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|------------------------------|-----------------------|-------|--------------------------|---------------------|-------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 1.28 | 5.60 | 0.16 | 0.00 | 7.04 | 0.20 | 7.82 | 7.62 | 5.23 | 7.10 |
| 0.38 | 0.32 | 7.58 | 0.00 | 8.28 | 0.00 | 8.03 | 8.03 | .... | 12.46 |
| 0.00 | 1.44 | 0.96 | 6.88 | <u>9.28</u> | 0.63 | 6.77 | 6.14 | 6.03 | 6.03 |
| 1.10 | 2.88 | 1.44 | 4.26 | 9.68 | 0.31 | 8.10 | <u>7.79</u> | 8.75 | 8.75 |
| 1.56 | 3.76 | 0.32 | 0.00 | 5.64 | 0.28 | 10.76 | 10.48 | 8.48 | 10.63 |
| 4.24 | 9.12 | 3.52 | 0.00 | 16.88 | 0.00 | 32.29 | 32.29 | .... | 16.26 |
| .... | .... | .... | .... | 2.34 | .... | 28.75 | ..... | .... | ..... |
| 0.70 | 6.48 | 0.08 | 1.02 | 8.28 | 0.58 | 9.31 | 8.73 | 8.03 | 8.78 |
| 0.00 | 2.08 | 1.26 | 0.94 | 4.28 | 0.33 | 10.89 | 10.56 | 4.50 | 4.80 |

⁴ Magnesium: Guaranteed, 1.80%; found, 2.36%.

⁵ Mechanical Analysis: Fine, 62.00%; coarse, 38.00%.

⁶ Iron: Guaranteed, 0.15%; found, 1.49%.

TABLE 7.
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|---|---|-------------------|
| <u>GANSCO PRODUCTS, LTD.,</u>
Toronto, Can. | | |
| 9402 | Gard-N-Stick 5-4-4 | Greenwich |
| 9725 | Gard-N-Stik 12-8-6 | W. Hartford |
| <u>GOULARD & OLENA, INC.,</u>
Skillman, N. J. | | |
| 9574 | G & O Tomato & Fruit Food 5-10-10 | New Canaan |
| 9453 ⁷ | G & O Sheep Manure 1-1-1 | Wethersfield |
| <u>GREEN THUMB PRODUCTS,</u>
Toledo, Ohio | | |
| 9793 | Green Thumb African Violet Food
8-4-8 with Vitamin B-1 | Waterbury |
| 9789 | Green Thumb Plant Food 5-5-10 | Waterbury |
| <u>GRO PRODUCTS, Hudson, N. Y.</u> | | |
| 9643 | Instant Plant Food 5-10-5 | Milford |
| <u>HARRISON SPECIALTY CO., INC.,</u>
Boston 67, Mass. | | |
| 9152 | Chemton Liquid Plant Food 5-5-5 | Meriden |
| <u>THE CHARLES C. HART SEED CO.,</u>
Wethersfield, Conn. | | |
| 9442 | Hart's Rose Food 7-7-7 | Wethersfield |
| <u>A. H. HOFFMAN, INC.,</u>
Landisville, Pa. | | |
| 8998 | Hoffman Azalea & Evergreen Food
4-6-10 | Wallingford |
| 9590 ⁸ | Hoffman Cow Manure (Dehydrated) | Thompsonville |

~~~~~ Indicates deficiencies.

<sup>7</sup> Sand: 58.95%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,<br>per cent |            |                           |                     | Phosphoric acid,<br>per cent |                       |       | Potash,<br>per cent      |            |             |
|-----------------------|------------|---------------------------|---------------------|------------------------------|-----------------------|-------|--------------------------|------------|-------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total                        | Citrate-<br>insoluble | Total | So-called<br>"available" | As muriate | Total       |
| 0.00                  | 1.20       | 3.68                      | 1.26                | 6.14                         | 0.34                  | 7.60  | 7.26                     | 4.24       | 4.24        |
| 0.00                  | 6.16       | 5.04                      | 0.88                | 12.08                        | 0.22                  | 8.92  | 8.70                     | 6.45       | 6.45        |
| 1.40                  | 3.36       | 0.16                      | 0.12                | 5.04                         | 0.31                  | 11.28 | 10.97                    | 6.25       | <u>9.77</u> |
| .....                 | .....      | .....                     | .....               | 1.20                         | 0.27                  | 1.02  | 0.75                     | .....      | 1.58        |
| 2.52                  | 1.36       | 4.72                      | 0.00                | 8.60                         | 0.00                  | 4.70  | 4.70                     | .....      | 8.15        |
| 3.20                  | 1.84       | 0.64                      | 0.00                | 5.68                         | 0.00                  | 5.29  | 5.29                     | .....      | 10.05       |
| 0.00                  | 6.48       | 0.00                      | 0.00                | 6.48                         | 0.00                  | 21.15 | 21.15                    | 4.74       | 6.50        |
| 0.00                  | 1.04       | 4.08                      | 0.00                | 5.12                         | 0.00                  | 5.03  | 5.03                     | 4.75       | 5.00        |
| 0.42                  | 4.40       | 0.72                      | 0.96                | <u>6.50</u>                  | 0.35                  | 9.36  | 9.01                     | 6.52       | 7.38        |
| 0.22                  | 4.08       | 0.40                      | 0.98                | 5.68                         | 0.53                  | 10.97 | 10.44                    | 8.05       | 10.04       |
| .....                 | .....      | .....                     | .....               | 2.20                         | 0.15                  | 1.61  | 1.46                     | .....      | 2.68        |

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.                                               | Manufacturer and brand                | Place of Sampling |
|-----------------------------------------------------------|---------------------------------------|-------------------|
| <u>A. H. HOFFMAN, INC.,</u><br>Landisville, Pa. - Cont.   |                                       |                   |
| 8999                                                      | Hoffman 5-10-10 Fertilizer for Garden | Wallingford       |
| 9591                                                      | Hoffman Rose Food 5-10-5              | Thompsonville     |
| 9467                                                      | Mistress Mary Brand Rose Food 5-10-5  | Newington         |
| <u>THE HUBBARD-HALL CHEMICAL CO.,</u><br>Waterbury, Conn. |                                       |                   |
| 9456 <sup>9</sup>                                         | HH Bone Meal 2-23-0                   | Wethersfield      |
| 9015                                                      | HH Bulb Food 7-10-4                   | Milford           |
| 9068 <sup>10</sup>                                        | HH Cow Manure 1.5-1-1                 | Bristol           |
| 9207                                                      | HH Evergreen Food 4-10-4              | Centerbrook       |
| 9183                                                      | HH Plant Food 5-10-5                  | Guilford          |
| <u>HYDROPONIC CHEMICAL CO.,</u><br>Copley, Ohio           |                                       |                   |
| 9418                                                      | Hyponex African Violet Food 7-6-19    | Darien            |
| <u>THE HY-TROUS CORP.,</u><br>Boston, Mass.               |                                       |                   |
| 8967                                                      | Hy-Trous Liquid Fertilizer 4-8-4      | Bridgeport        |
| <u>LEBANON CHEMICAL CORP.,</u><br>Lebanon, Pa.            |                                       |                   |
| 9722 <sup>11</sup>                                        | Lebanon Bone Meal 2.3-15-20           | W. Hartford       |
| <u>LOGLIFE FISH FOOD PRODUCTS,</u><br>Denville, N. J.     |                                       |                   |
| 8921                                                      | Longlife Aquarium Plant Food          | Thompsonville     |

<sup>9</sup> Mechanical Analysis: Fine, 76.00%; coarse, 24.00%.

<sup>10</sup> Sand: 26.40%.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,<br>per cent |            |                           |                     | Phosphoric acid,<br>per cent |                       |       |                          | Potash,<br>per cent |       |
|-----------------------|------------|---------------------------|---------------------|------------------------------|-----------------------|-------|--------------------------|---------------------|-------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble | Total                        | Citrate-<br>insoluble | Total | So-called<br>"available" | As muriate          | Total |
| 0.00                  | 5.12       | 0.00                      | 0.30                | 5.42                         | 0.09                  | 10.14 | 10.05                    | 8.17                | 10.15 |
| 0.00                  | 3.44       | 0.32                      | 1.56                | 5.32                         | 0.17                  | 11.72 | 11.55                    | 3.13                | 5.59  |
| 0.00                  | 3.36       | 0.72                      | 1.48                | 5.56                         | 0.19                  | 10.42 | 10.23                    | 3.58                | 5.34  |
| .....                 | .....      | .....                     | .....               | 2.08                         | 10.05                 | 28.01 | 17.96                    | .....               | ..... |
| 0.00                  | 3.44       | 3.84                      | 1.32                | 8.60                         | 0.51                  | 11.18 | 10.67                    | 5.41                | 5.41  |
| .....                 | .....      | .....                     | .....               | 1.64                         | 0.39                  | 1.53  | 1.14                     | .....               | 2.88  |
| 0.00                  | 2.16       | 1.20                      | 1.40                | 4.76                         | 0.30                  | 10.67 | 10.37                    | 4.16                | 4.24  |
| 0.60                  | 2.56       | 1.36                      | 1.08                | 5.60                         | 0.79                  | 11.03 | 10.24                    | 5.06                | 5.16  |
| 5.68                  | 1.20       | 0.24                      | 0.00                | 7.12                         | 0.02                  | 7.56  | 7.54                     | .....               | 19.54 |
| 1.32                  | 2.16       | 1.20                      | 0.00                | 4.68                         | 0.00                  | 8.49  | 8.49                     | .....               | 5.22  |
| .....                 | .....      | .....                     | .....               | 2.32                         | 8.94                  | 26.92 | 17.98                    | .....               | ..... |
| .....                 | .....      | .....                     | .....               | 0.426                        | .....                 | 0.791 | .....                    | .....               | 0.560 |

<sup>11</sup> Mechanical Analysis: Fine, 67.00%; coarse, 33.00%.



TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.                                                                | Manufacturer and brand                           | Place of Sampling |
|----------------------------------------------------------------------------|--------------------------------------------------|-------------------|
| <u>LOGLIFE PLANT CARE, INC.,</u><br>New York, N. Y.                        |                                                  |                   |
| 9460                                                                       | Longlife African Violet Food Tablets<br>16-17-16 | Middletown        |
| 9160                                                                       | Longlife Plant Food 8-12-8                       | New Britain       |
| <u>MILLER CHEMICAL &amp; FERTILIZER</u><br><u>CORP., Baltimore 15, Md.</u> |                                                  |                   |
| 9448                                                                       | Miller VHPF A Complete Plant Food<br>6-25-15     | Wethersfield      |
| <u>NELSEN STEEL &amp; WIRE CO.,</u><br>Franklin Park, Ill.                 |                                                  |                   |
| 9135 <sup>12</sup>                                                         | Green Garde Micronized Iron                      | Newtown           |
| <u>PARKS-BARNES, INC.,</u><br>Hermosa Beach, Cal.                          |                                                  |                   |
| 9792                                                                       | Black Magic Fish-ilizer Brand 10-5-5             | Waterbury         |
| <u>PERK-UP PRODUCTS CO.,</u><br>South Deerfield, Mass.                     |                                                  |                   |
| 9055                                                                       | Perk-Up Plant Food 5-10-5 Fertilizer             | Southington       |
| <u>PLANTABBS CORP., Baltimore, Md.</u>                                     |                                                  |                   |
| 9552                                                                       | Hy-Gro Orchid 18-18-18 Soluble Plant<br>Food     | Darien            |
| 8980                                                                       | Plantabbs African Violet Plant Food<br>11-15-20  | Hamden            |
| 8924                                                                       | Plantabbs 10-10-10 Liquid Plant Food             | Thompsonville     |
| 8923                                                                       | Plant Pens 5-0-0                                 | Thompsonville     |
| <u>PLANT SHINE CO., Div. Schultz Co.,</u><br>St. Louis 2, Mo.              |                                                  |                   |
| 9238                                                                       | Schultz-Instant Liquid Plant Food<br>10-15-10    | New London        |

~~~~~ Indicates deficiencies.

TABLE 7.
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,
per cent | | | | Phosphoric acid,
per cent | | | Potash,
per cent | | |
|-----------------------|------------|---------------------------|---------------------|------------------------------|-----------------------|-------|--------------------------|------------|-----------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | Total | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 4.56 | 3.68 | 6.64 | 0.00 | 14.88 | 0.05 | 14.50 | 14.45 | .... | 16.20 |
| 0.00 | 4.16 | 4.20 | 0.00 | 8.36 | 0.00 | 12.30 | 12.30 | 7.93 | 8.08 |
| 4.76 | 1.52 | 0.32 | 0.00 | 6.60 | 0.23 | 28.20 | 27.97 | .... | 15.71 |
| | | | | | | | | | |
| 0.00 | 0.48 | 9.36 | 2.24 | 12.08 | 0.53 | 8.71 | 8.18 | 0.39 | 5.29 |
| 0.00 | 3.76 | 1.68 | 0.16 | 5.60 | 0.52 | 10.77 | 10.25 | 4.40 | 5.19 |
| 5.20 | 3.84 | 9.76 | 0.00 | 18.80 | 0.00 | 18.20 | 18.20 | .... | 18.24 |
| 7.60 | 4.64 | 0.24 | 0.00 | 12.48 | 0.00 | 17.55 | 17.55 | .... | 20.40 |
| 0.00 | 0.00 | 10.36 | 0.00 | 10.36 | 0.00 | 9.00 | 9.00 | .... | 8.56 |
| 0.00 | 0.00 | 0.80 | 6.40 | 7.20 | .... | .... | .... | .... | .... |
| 0.88 | 1.92 | 10.16 | 0.00 | 12.96 | 0.00 | 16.70 | 16.70 | .... | 8.81 |

¹² Iron: Guaranteed, 25.00%; found, 32.99%.

TABLE 7.
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No. | Manufacturer and brand | Place of Sampling |
|--------------------|---|-------------------|
| | <u>RA-PID-GRO CORP., Dansville, N. Y.</u> | |
| 8963 | Ra-Pid-Gro 23-21-17 | Derby |
| | <u>ROSS DANIELS, INC.,
Des Moines, Iowa</u> | |
| 9630 | Ross Plant Food Cartridges
15-25-10 - Rose | Fairfield |
| | <u>SEARS, ROEBUCK & CO.,
Chicago 7, Ill.</u> | |
| 8986 ¹³ | Cross Country Cattle Manure Compost | Hamden |
| 9735 | Cross Country Evergreen Food 10-6-4 | W. Hartford |
| 9736 | Cross Country Instant Plant Food
20-20-20 | W. Hartford |
| 9229 | Cross Country Instant Tomato Food
15-30-15 | New London |
| 8987 | Cross Country Rose Food 5-10-5 | Hamden |
| | <u>STERN'S GARDEN PRODUCTS, INC.,
Geneva, N. Y.</u> | |
| 9144 | Miracle-Gro 15-30-15 | Brookfield |
| 9066 | Stern's Miracid 30-10-10 | Bristol |
| | <u>STIM-U-PLANT LABORATORIES,
INC., Columbus 16, Ohio</u> | |
| 8991 | Stim-U-Plant African Violet Food 5-8-7 | Hamden |
| | <u>STOCKDALE FERTILIZER CO., INC.,
Morris, Ill.</u> | |
| 9237 | Ovene Sheep Sticks Plant Food 2-1-2 | New London |
| | <u>SUPER SOIL, INC., Toledo, Ohio</u> | |
| 9646 | Super Sure Plant Food 5-5-10 | Milford |

~~~~~ Indicates deficiencies.

TABLE 7.  
ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,<br>per cent |            |                           |                     | Total | Phosphoric acid,<br>per cent |       |                          | Potash,<br>per cent |              |
|-----------------------|------------|---------------------------|---------------------|-------|------------------------------|-------|--------------------------|---------------------|--------------|
| Nitrate               | Ammoniacal | Water-<br>soluble organic | Water-<br>insoluble |       | Citrate-<br>insoluble        | Total | So-called<br>"available" | As muriate          | Total        |
| 4.96                  | 3.68       | 15.20                     | 0.00                | 23.84 | 0.00                         | 19.92 | <u>19.92</u>             | 0.00                | 17.58        |
| 0.40                  | 5.68       | 9.60                      | 0.00                | 15.68 | 0.02                         | 29.49 | 29.47                    | ....                | 10.66        |
| ....                  | ....       | ....                      | ....                | 1.20  | ....                         | 0.86  | ....                     | ....                | 1.00         |
| 0.00                  | 4.88       | 4.50                      | 1.24                | 10.62 | 0.36                         | 7.10  | 6.74                     | 3.04                | 4.00         |
| 0.00                  | 6.24       | 15.04                     | 0.00                | 21.28 | 0.00                         | 20.98 | 20.98                    | 15.61               | 20.80        |
| 0.24                  | 13.68      | 2.32                      | 0.00                | 16.24 | 0.00                         | 34.94 | 34.94                    | 12.03               | <u>12.36</u> |
| 0.00                  | 3.76       | 1.56                      | 0.20                | 5.52  | 0.49                         | 11.73 | 11.24                    | 4.50                | <u>5.10</u>  |
| 0.00                  | 7.36       | 8.08                      | 0.00                | 15.44 | 0.00                         | 31.49 | 31.49                    | 12.18               | 15.49        |
| 0.32                  | 3.84       | 27.52                     | 0.00                | 31.68 | 0.00                         | 10.88 | 10.88                    | 7.22                | 10.55        |
| 1.48                  | 4.64       | 0.00                      | 0.00                | 6.12  | 0.45                         | 11.33 | 10.88                    | ....                | 10.04        |
| ....                  | ....       | ....                      | ....                | 2.08  | 0.23                         | 1.45  | 1.22                     | 0.30                | 2.25         |
| 2.88                  | 2.00       | 0.48                      | 0.00                | 5.36  | 0.00                         | 5.24  | 5.24                     | ....                | <u>9.67</u>  |

<sup>13</sup> Sand: 51.79%.



TABLE 7.

## ANALYSES OF SMALL PACKAGE FERTILIZERS

| Station No.                                                  | Manufacturer and brand                                  | Place of Sampling |
|--------------------------------------------------------------|---------------------------------------------------------|-------------------|
| <u>SWIFT &amp; CO., Agrichem Div.,</u><br>New Haven 5, Conn. |                                                         |                   |
| 9009                                                         | Instant Vigoro 20-10-15                                 | Stratford         |
| 8981                                                         | Liquid Vigoro Plant Food for House<br>Plants 10-5-5     | Hamden            |
| 9464 <sup>14</sup>                                           | Swift Bone Meal                                         | Newington         |
| 9180                                                         | Vigoro All Purpose Complete Plant<br>Food 6-10-4        | Branford          |
| 9044                                                         | Vigoro Evergreen Food 6-7-8                             | Wilson            |
| 9042                                                         | Vigoro Rose Food 6-10-4                                 | Berlin            |
| <u>SWISS FARMS, INC., Philmont, N. Y.</u>                    |                                                         |                   |
| 9024                                                         | African Violet Food 5-14-9                              | Milford           |
| 8922                                                         | Fish Emulsion Fertilizer 5-2-2                          | Thompsonville     |
| 9056                                                         | Instant Action Rose Food 6-15-11                        | Southington       |
| 9461                                                         | Plantdrops Instant Liquid African<br>Violet Food 6-18-6 | Middletown        |
| <u>TREBOR PLANT &amp; SOIL CO.,</u><br>Hartford 12, Conn.    |                                                         |                   |
| 9455                                                         | Magic-Gro 15-10-5 African Violet Food                   | Wethersfield      |
| <u>WALKER-GORDON LABORATORY CO.,</u><br>Plainsboro, N. J.    |                                                         |                   |
| 9077 <sup>15</sup>                                           | Bovung 2-1-2                                            | Norwalk           |
| <u>WYATT PRODUCTS, INC.,</u><br>Atlanta 9, Ga.               |                                                         |                   |
| 9228                                                         | Luster Leaf Plant Food 8-8-8                            | New London        |

~~~~~ Indicates deficiencies.

¹⁴ Mechanical Analysis: Fine, 69.00%; coarse, 31.00%.

TABLE 7.

ANALYSES OF SMALL PACKAGE FERTILIZERS

| Nitrogen,
per cent | | | | Total | Phosphoric acid,
per cent | | | Potash,
per cent | |
|-----------------------|------------|---------------------------|---------------------|--------------|------------------------------|-------|--------------------------|---------------------|-------------|
| Nitrate | Ammoniacal | Water-
soluble organic | Water-
insoluble | | Citrate-
insoluble | Total | So-called
"available" | As muriate | Total |
| 0.00 | 9.76 | 10.56 | 0.00 | 20.32 | 0.03 | 10.40 | 10.37 | 15.77 | 15.77 |
| 0.00 | 1.60 | 8.40 | 0.00 | 10.00 | 0.00 | 5.20 | 5.20 | 4.70 | 5.07 |
| .... | .... | .... | .... | 2.45 | .... | 27.46 | .... | .... | .... |
| 0.42 | 5.28 | 0.32 | 0.14 | 6.16 | 0.60 | 10.66 | 10.06 | 3.33 | 4.18 |
| 1.16 | 4.32 | 0.32 | 0.20 | 6.00 | 0.79 | 8.61 | 7.82 | 9.00 | 10.04 |
| 0.54 | 5.44 | 0.00 | 0.18 | 6.16 | 0.41 | 11.27 | 10.86 | 3.89 | 4.18 |
| 2.80 | 2.40 | 0.48 | 0.08 | 5.76 | 0.20 | 14.41 | 14.21 | .... | 9.32 |
| 0.00 | 0.48 | 3.48 | 1.14 | 5.10 | 0.04 | 2.34 | 2.30 | 1.93 | 2.43 |
| 3.64 | 3.20 | 0.00 | 0.00 | 6.84 | 0.22 | 16.70 | 16.48 | .... | 11.78 |
| 0.00 | 6.04 | 0.00 | 0.00 | 6.04 | 0.00 | 18.78 | 18.78 | 4.66 | 6.11 |
| 0.48 | 4.32 | 9.60 | 0.00 | <u>14.40</u> | 0.00 | 10.38 | 10.38 | 5.31 | 5.56 |
| .... | .... | .... | .... | 2.12 | 0.17 | 1.71 | 1.54 | .... | 2.37 |
| 0.00 | 0.00 | 8.16 | 0.00 | 8.16 | 0.00 | 7.90 | 7.90 | .... | <u>7.04</u> |

TABLE 8.
ANALYSES OF OTHER MISCELLANEOUS MATERIALS
(Figures are in per cent)

| Station No. | Material | Total nitrogen | Total phosphoric acid | Citrate insoluble phosphoric acid | "Available" phosphoric acid | Water soluble potash | Chlorine | Calcium oxide | Magnesium oxide | Boron | Sand |
|-------------|--------------------------------|--------------------|-----------------------|-----------------------------------|-----------------------------|----------------------|----------|---------------|-----------------|-------------------|------|
| 9088 | Chicken manure | 3.00 | 5.21 | ... | ... | 2.02 | ... | ... | ... | ... | 0.87 |
| 9586 | Cocoa shells | 2.80 | 1.18 | 0.19 | 0.99 | 3.25 | 0.00 | ... | ... | ... | ... |
| 79 | Fertilizer | 4.28 ¹ | 0.83 | 0.13 | 0.70 | 1.80 | 0.10 | ... | ... | ... | ... |
| 8352 | Hydrated lime | ... | ... | ... | ... | ... | ... | 41.48 | 30.08 | ... | ... |
| 9912 | Leaves from compost pile | 1.20 | 0.23 | ... | ... | trace | ... | 2.16 | 0.45 | 0.006 | ... |
| 76 | Limestone | ... | ... | ... | ... | ... | ... | very high | very high | ... | ... |
| 8756 | Limestone | ... | ... | ... | ... | ... | ... | 40.98 | 9.65 | ... | ... |
| 8757 | Limestone | ... | ... | ... | ... | ... | ... | 50.73 | 0.98 | ... | ... |
| 9600 | Limestone | ... | ... | ... | ... | ... | ... | 26.84 | ... | ... | ... |
| 1005 | Pigskin leather | 12.16 ² | 0.07 | ... | ... | 0.00 | ... | ... | ... | ... | ... |
| 8733 | Trap rock | ... | 0.00 | ... | ... | 0.00 ³ | ... | ... | ... | ... | ... |
| 8899 | 20 Mule Team Borax Granular | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | 8/40 Special Mesh Technical | ... | ... | ... | ... | ... | ... | ... | ... | 11.7 ⁴ | ... |
| 9516 | 20 Mule Team Fertilizer Borate | ... | ... | ... | ... | ... | ... | ... | ... | 14.7 ⁵ | ... |
| | 46 High Grade Coarse Mesh | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 8740 | Unknown byproduct | 0.08 | 0.00 | ... | ... | 0.00 | ... | ... | ... | ... | ... |
| 9090 | Unknown fertilizer | 9.36 | 5.13 | ... | ... | 7.74 | ... | ... | ... | ... | ... |

¹ Soluble organic nitrogen 0.96%; insoluble nitrogen 3.32%.
² Active insoluble nitrogen 8.17%; inactive nitrogen 3.99%.
³ Water-insoluble potash 0.09%.
⁴ Guaranteed 11.3%.
⁵ Guaranteed 14.3%.

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